

The American Mathematical Association of Two-Year Colleges

34th Annual Conference



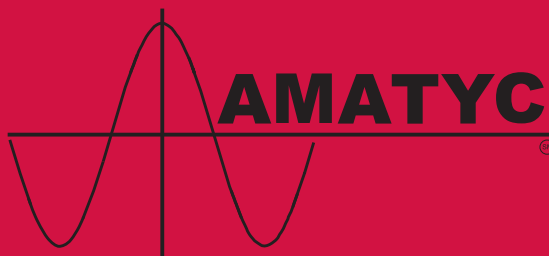
Washington, DC

November 20-23, 2008

Hosted by
VMATYC, MMATYC,
and the
Mid-Atlantic
Region

Hilton Washington Hotel
1919 Connecticut Avenue, NW
Washington, DC 20009

OFFICIAL PROGRAM



Opening Doors Through Mathematics

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WELCOME

to the
34th Annual Conference
of the

American Mathematical Association
of Two-Year Colleges



Hilton Washington Hotel

November 20-23, 2008

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On-Site Conference Registration

Wednesday	Nov. 19	4:00 pm - 8:00 pm	Friday	Nov. 21	7:00 am - 5:00 pm
Thursday	Nov. 20	7:00 am - 7:30 pm	Saturday	Nov. 22	7:00 am - 8:00 am
			Saturday	Nov. 22	10:00 am - Noon

President's Welcome



Welcome to the 34th Annual AMATYC Conference and to Washington, DC: A Monumental Place for Mathematics. On behalf of the American Mathematical Association of Two-Year Colleges' Executive Board, the AMATYC Office Staff, the conference team, and the many volunteers who have offered and given their valuable time and energy, I bring greetings and wishes for a productive and rewarding conference.

This year's conference extends AMATYC's commitment to its vision of "Opening Doors Through Mathematics." Please join me at the Opening Session where Freeman Hrabowski will present dramatic technological and demographic challenges to two-year colleges and faculty. Choose from the many sessions and featured speakers on Thursday and Friday and then see how much fun physics can be at the Saturday morning breakfast presentation by David Wright. This year's program is sure to be monumental!

Thank you for joining us at the conference. By attending the 2008 AMATYC Annual Conference, you are demonstrating your commitment to the improvement of mathematics education!



Mid-Atlantic Vice President's Message Ruth Collins



Welcome to the Washington, DC conference and the Mid-Atlantic region, one of the most diverse regions in our country. Whether you have been to DC a dozen times or this is your first trip, be sure to look at the information that has been compiled by our affiliates, information which will allow you to get the most from your visit. Your host affiliates, VMATYC and MMATYC, as well as the other affiliates that comprise the Mid-Atlantic region, DelMATYC (Delaware), MATYC[NJ (New Jersey), PSMATYC (Pennsylvania), and WVMATYC (West Virginia), all welcome you to explore and enjoy Washington, DC.

The Washington, DC area, and indeed the entire Mid-Atlantic region, has a rich heritage going back to the founding of our country. The city of Washington has been called the Capital City by Pierre L'Enfant, Federal Town by Jefferson, and Federal City by George Washington himself. Situated on the Potomac River, the city has wonderful sites to see in every direction and many tours are available that will acquaint you with much in the way of new information. The conference theme is Washington, DC, a Monumental Place for Mathematics, and the presentations and program for the 34th conference are indeed a wonderful composite of all things mathematical; there is something here for everyone. The Local Events Committee, led by Judy Williams, has been hard at work since before the last conference, to ensure that you enjoy your visit to Washington, DC.

We look forward to meeting each and every one of you. Please watch for the red vests that indicate persons are local events committee members or greeters. Ask questions, meet new people with a common interest, spend time renewing friendships from previous conferences and enjoy your stay. We hope your memories of your Monumental Visit and this conference are inspiring. Welcome to Washington, DC.



Washington, DC Local Events Coordinator's Message Judy Williams

Welcome to Washington, DC - a monumental place for mathematics and a colossal city for exploration. The forty members of the outstanding Local Events Committee have expended an enormous amount of energy to provide a tremendous place to network and ensure an immense amount of information about the considerable array of stupendous options to investigate the historic and substantial offerings in our nation's capital city. (How many synonym's for "monumental" can you circle in this paragraph? If you need hints, look at thesaurus.com.)

Seriously, those of us wearing the red fleece vests want to help you feel at home. Ask us for directions in the hotel and for hints about places to go in the city. In the Professional Networking/Hospitality Room (Edison on the Terrace Level of the hotel) you'll find menus from neighborhood restaurants. Sign up for a Dutch treat outing for dinner or entertainment on Friday or Saturday evening. Drop your business card in the specially marked box on the counter for a chance to win our monumental prize at noon Saturday. Enter the drawings for other prizes during the conference, too. From the Networking Room enter the Internet Café (Farragut) to check your email. Friday morning, from 10:30 to noon, visit with the National Science Foundation's Community College Liaison, Elizabeth Teles, who will also share information about funding opportunities.

Thursday, between 7 and 10 pm, stop by the Professional Networking Room for an informal evening of music, games, and relaxation, where "Fuzzy Slippers and PJs Are Welcome." Bring a CD of your favorite music or instructions for a game you'd like us to play. We'll finish the night with some cookies and cocoa.

If you brought friends or family with you, Thursday morning at 8:15 send them to S7 in the Cabinet Room for "Making Connections: Family and Friends" where they can meet other guests at the conference and hear from AMATYC spouses and children what they love about Washington, DC. If you are looking for a Friday evening activity, join us for a snack while viewing some mathematical moments from TV or film.

We are thrilled that you have come to our region of the country. The conference offers mathematical opportunities galore, which we know is your primary focus for this trip. Let us help you relax, too, and experience a few moments of what makes Washington a monumental place, not only for mathematics, but for everything!



AMATYC Statement on Equity and Diversity

The American Mathematical Association of Two-Year Colleges (AMATYC) respects the contributions that all individuals can make within the organization, the profession and as mathematics students. AMATYC is committed to promoting equal opportunities in membership, appointment, employment, recruitment, scholarship, training and other professional practices for its members, the profession, and mathematics students without regard to age, color, creed, disability, economic or social status, ethnic origin, gender, marital status, national origin, political belief, race, religion, or sexual orientation.



Opening Remarks and Keynote Address

Thursday, November 20, 3:00 pm

Keynote Speaker: Freeman Hrabowski

*21st Century Math Education:
Promoting Success Among All Students*

Freeman Hrabowski joins us in the opening session of our 34th conference to discuss the huge changes technology and demographics have brought as we strive to educate the next generations in mathematics of the 21st century. He asks questions that we continue to wrestle with: What knowledge base do students need today? What skills must they possess to succeed in their lives in this century? What strategies can we use to better teach them?

Hrabowski earned a degree in mathematics at age nineteen from the Hampton Institute, and completed an M.A. in Mathematics and a Ph.D. in Higher Education Administration/Statistics at age twenty-four from the University of Illinois. We might perceive him as one of those brilliant students we all love to have in our classes who never understands how difficult that same achievement is for many of our students. We would be wrong. Freeman has continued his research in mathematics and science education. He has served as president of the University of Maryland, Baltimore County, since May 1992, where he is credited with increasing the success of its students in the sciences. He serves as a consultant on several corporate and civic boards where many are able to share in his wisdom in a national arena.



Awards Breakfast and Keynote Speaker

Saturday, November 22

Breakfast Served: 7:45 am - 8:00 am (Ticket Required)

Recognition Program and Keynote Speaker: 8:30 am - 10:00 am

Keynote Speaker: David Wright

Physics is Phun

What entertainment and education will we enjoy when the title of David's talk is so phunny? Let's check out what a bed of nails, balls of fire, and a leaf blower all have to do with mathematics. Come and see how the mathematics behind physics is revealed with his eye-popping, magical demonstrations. Be prepared to participate! Maybe he'll put on one of his Tidewater Physics Olympics. We'd better ask him what that is all about.

Wright received his Bachelor's and Master's Degrees in physics from Brigham Young University and a Ph.D. from Virginia Tech. Since then Tidewater Community College in Virginia has continued to use his talents as a professor in physics and astronomy.

David Wright has appeared on *Live with Regis and Kathy Lee* and *Late Night with Conan O'Brien*. He is Dr. D on the *NASA Science Files* TV series. He has written educational books for Busch Gardens in Williamsburg and in Tampa and he does physics demonstration shows regularly at those parks. He's someone we can cheer for as far as science education goes.



Featured Speaker

Thursday, November 20, 1:45 pm

Abigail Norfleet James

Gender Differences and the Teaching of Mathematics

Abigail Norfleet James is presently an adjunct faculty member with Germanna Community College and is considered an expert in gendered education. She received a Bachelor's of Science in 1970 from Duke University and a Ph.D. in Educational Psychology in 2001 from the University of Virginia. James conducts workshops in the U.S. and Canada concerning techniques for teaching in gendered classrooms and is on the Advisory Board of the National Association for Single Sex Public Education. Her fifty-minute session will be very interesting as she discusses the differences in female and male learning styles and their neurocognitive gender differences, and demonstrates classroom strategies to help students by countering a predominant belief that women cannot do well in mathematics.



Featured Speaker

Saturday, November 22, 10:45 am

John A. Adam

Mathematical Patterns in Nature

John Adam will provide an entertaining fifty minutes in his presentation about patterns that can be found everywhere from rainbows to butterfly wings, from cloud formations to spider webs. John became professor of mathematics and statistics at Old Dominion University in Virginia in 1984. He has received its highest teaching award and has held the title of university professor since 1999. He received the state of Virginia's highest honor for faculty when he was presented the Outstanding Faculty Award in 2007. John received both a B.S. and Ph.D. from the University of London, the former in 1971 and the latter in 1974.





Featured Speaker

Friday, November 21, 10:30 am

George R. Boggs

Why We Must Achieve the Dream

George Boggs will address current and future challenges that affect community colleges. He presently serves as president of the American Association of Community Colleges (AACC) that represents over 1,100 associate degree granting institutions that are working with more than 11,000,000 students. Boggs was formerly a faculty member at Butte College and then president of Palomar College, both in California. George also serves as a member of the Committee on Undergraduate Science Education of the U.S. National Research Council. He served on the U.S. National Science Board and several foundation panels, commissions, and committees.



Featured Speaker

Friday, November 21, 1:00 pm

Larry Faulkner

The National Mathematics Advisory Panel

Larry Faulkner obtained a B.S. from Southern Methodist University in 1966 and a Ph.D. in Chemistry in 1969 from the University of Texas at Austin. He has been part of the chemistry faculties at Harvard, University of Illinois and University of Texas. He became president of the University of Texas at Austin in 1998 and stayed until 2006 when he accepted a position to chair the National Mathematics Advisory Panel. Using 16,000 previous and continuing studies and obtaining testimony from 63 organizations and 41 experts, the Panel presented its recommendations to the President and the Secretary of Education. He will share those findings and recommendations with us.



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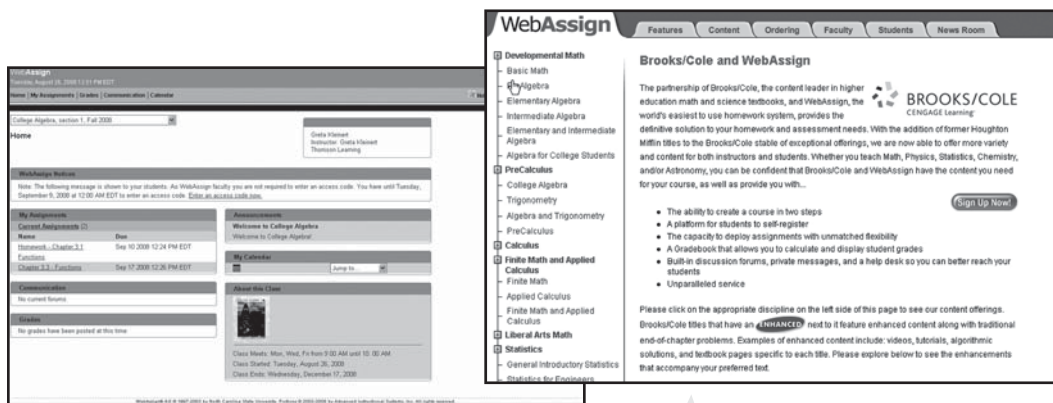


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Friday, November 21 from 2:30-4:00 PM

Or stop by our booths to see how EWA works!

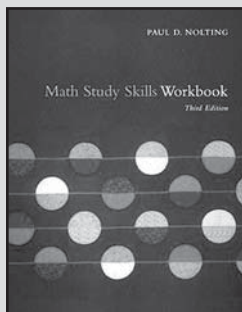
Be sure to stop by **Booths 300–303** to see technology demos and to learn about our latest titles,
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You Know Us by Our Authors



Please check out presentations given at AMATYC by these Brooks/Cole authors:

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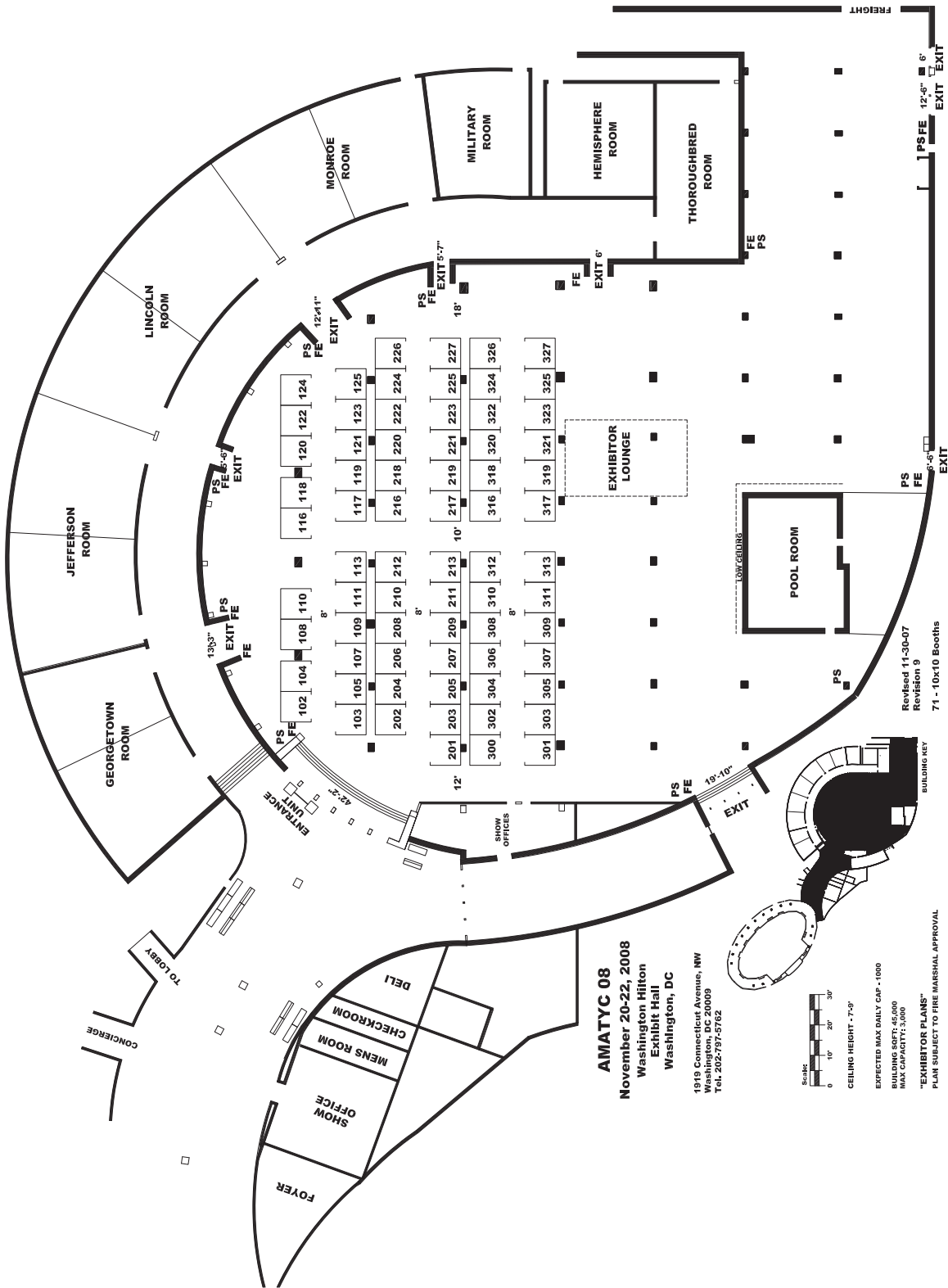
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2008 AMATYC EXHIBITS

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EXHIBIT HALL

EXHIBIT HOURS

Thursday, November 20

4:45 pm - 7:30 pm**

Grand Opening

Friday, November 21

9:30 am - 1:00 pm

1:45 pm - 5:00 pm

9:45 am - 10:30 am**

Exhibitors Featured

Saturday, November 22

9:45 am - 1:00 pm

10:00 am - 10:45 am**

Exhibitors Featured

Exhibitor	Booth(s)	Exhibitor	Booth(s)
Academic Success Press, Inc.	304	Modu Math	207
ACT, Inc.	125	Mu Alpha Theta	220
ACTEX Publications	310	Pacific Crest	305
Brooks/Cole, Cengage Learning	300-303	Pearson	217, 219, 221, 223, 225, 316, 318, 320, 322, 324
Carnegie Learning, Inc.	308	Plato Learning	216, 218
CASIO America*	312	PTC	119
Content on Demand	206	SMARTHINKING, Inc.	209
Educo International, Inc.	313	Teachers for Learners	222
Enablearning	117	TechSmith Corporation	311
Hawkes Learning Systems*	201, 203, 205	Texas Instruments	210, 212
Jones and Bartlett Publishers	107	Thinkwell	224
MAA	121, 123	W.H. Freeman & Company	103, 105
Maplesoft	104	WebAssign	113
Math Alive and Applied	208	Wiley	211, 213
Math Sculpture	309	xyAlgebra	202
MathType by Design Science	204		
McGraw-Hill Higher Education	108-111		
Michael Cherry	307		
Minitab Inc.	102		

* denotes Silver Corporate Partner



Commercial Product Presentations by AMATYC Exhibitors
AMATYC Exhibit Hall
Friday 10:30 am - 4:45 pm



New to this year's conference, AMATYC exhibitors will conduct 30-minute presentations in the Exhibits Area on their products. The presentations' titles, descriptions, and speakers are listed on page 48 in the conference program and displayed in the Exhibit Hall. Be sure to check which companies will be presenting and which new products will be demonstrated. Make plans to attend one or all.

AMATYC Committees

Academic committees are critical to the fulfillment of AMATYC's mission. Their meetings are open to all interested individuals. Participation in committees provides AMATYC members with opportunities to learn more about an area of interest as well as a chance to share their expertise with others. Committees develop position statements, work on projects, organize themed sessions, and serve in an advisory role to the AMATYC Executive Board and the Delegate Assembly. Committees accomplish their work by meeting during the annual conference and using electronic communication during the year. Below is a summary of the focus of each of AMATYC's academic committees. Select one or more committees and get involved!

Developmental Mathematics

To improve the quality of developmental mathematics programs in the two-year college by providing a forum for the exchange of ideas and sharing of resources. **Subcommittees: Instruction and Faculty Development; Content, Assessment and Research**

Chair: Jack W. Rotman
Lansing CC
517.483.1079
rotmanj@lcc.edu

MEETING PLACE/TIME

Thursday, November 20
Map
10:45 am - 11:35 am

Friday, November 21
Map
1:00 pm - 1:50 pm

Division/Department Issues

To address issues of interest to mathematics department chairs and adjunct faculty including qualifications for mathematics faculty, mentoring new faculty, diversity, and international mathematics. **Subcommittees: Professional Concerns; Chairs; Adjunct Faculty; New Faculty; International and A-Net**

Chair: Anne Dudley
Glendale CC
623.845.3389
anne.dudley@gmail.maricopa.edu

MEETING PLACE/TIME

Friday, November 21
Georgetown East
4:30 pm - 5:30 pm

Innovative Pedagogy Strategies

To facilitate the effective use of innovative instructional techniques, including but not limited to distance learning, technology in the classroom, and active learning.

Chair: Mike Martin
Johnson County CC
913.469.8500 x3369
mmartin@jccc.edu

MEETING PLACE/TIME

Friday, November 21
Georgetown West
4:30 pm - 5:30 pm

Saturday, November 22
Chevy Chase
2:30 pm - 3:20 pm

Mathematics for AAS Programs

To discuss the mathematics needed for emerging technologies, including Business Tech, Engineering Tech, Information Tech, Health Care professions, and others.

Chair: Jesse Williford
Wake Technical CC
919.866.5986
ljwilliford@waketech.edu

Mathematics Intensive/College Mathematics

To focus on courses past the developmental/foundations level, including College Algebra, Statistics, Trigonometry, Precalculus, Calculus, Differential Equations, and Linear Algebra. **Subcommittee: Statistics**

Chair: Klement Teixeira
Borough of Manhattan CC
212.220.1359
kteixeira@bmcc.edu

Placement and Assessment

To serve as a resource for the AMATYC membership on issues related to student placement and the assessment of mathematics courses and programs, including student outcomes. **Subcommittees: Classroom Assessment; Course and Program Assessment; Placement**

Chair: Connie Buller
Metropolitan CC
402.289.1356
cbuller@mccneb.edu

Teacher Preparation

To ensure better preparation of teachers of mathematics at all levels. **Subcommittees: Elementary Teacher Preparation; Secondary Teacher Preparation; Mathematics Curriculum for Teachers**

Chair: Darlene Winnington
Delaware Technical & CC
302.292.3850
dwinning@dtcc.edu

MEETING PLACE/TIME

Thursday, November 20
1919 Grill
12:30 pm - 1:20 pm

Friday, November 21
State
4:30 pm - 5:30 pm

MEETING PLACE/TIME

Friday, November 21
Cabinet
4:30 pm - 5:30 pm

MEETING PLACE/TIME

Thursday, November 20
1919 Grill
1:45 pm - 2:35 pm

Friday, November 21
Map
4:30 pm - 5:30 pm

MEETING PLACE/TIME

Friday, November 21
1919 Grill
4:30 pm - 5:30 pm

Saturday, November 22
Chevy Chase
1:15 pm - 2:05 pm

FYI

Professional Networking/ Hospitality Room

Meet new friends or visit with colleagues in the Professional Networking/Hospitality Room located in the Edison Room of the Hilton Washington Hotel. Enjoy a snack or beverage and relax with a puzzle or game or just listen to some music. Members of the Washington Local Events Committee, offering a warm welcome, will be there to orient you to the city with information and maps to local attractions.

You can sign up to join others for dinner or to spend the evening at one of the city's many attractions. Connected to the Professional Networking/Hospitality Room is the room with computers to check your email.

Professional Networking/Hospitality Room Hours

Wednesday 4:00 pm - 10:00 pm

Thursday 8:00 am - 2:30 pm
and 7:00 pm - 10:00 pm

Friday 10:30 am - 4:00 pm
and 7:00 pm - 10:00 pm

Saturday 10:45 am - 4:00 pm

Internet/Email/Communications

The Farragut Room in the Hilton Washington Hotel will be equipped with computers with Internet access so that you can check your email. Entrance to this room will be through the Professional Networking/Hospitality Room next door in the Edison Room.

It is suggested that faculty who need to monitor web-based classes bring their own computer and complete this work in the comfort of their guest room.

Internet Room Hours

Wednesday 4:00 pm - 10:00 pm

Thursday 8:00 am - 2:30 pm and 7:00 pm - 10:00 pm

Friday 10:30 am - 4:00 pm and 7:00 pm - 10:00 pm

Saturday 10:45 am - 4:00 pm

Sightseeing

If you are interested in a tour, please stop by the hotel concierge desk. They will have all the information you need to make plans for you and your guests. Members of the Local Events Committee recommend the Tourmobile (www.tourmobile.com) for its free re-boarding feature to let you browse at your own pace. The company also offers a twilight tour to see the city lights as evening descends.

Local Transportation

The Hilton Washington Hotel is located four blocks from Dupont Circle, with neighborhood stores and restaurants within walking distance; we will have maps and lists of stores in the Professional Networking/Hospitality Room. All the attractions of the city can be reached by bus or Metro. The Dupont Circle Metro stop

is four blocks south on Connecticut Ave. The website of the Washington Metropolitan Area Transit Authority (www.wmata.com) has a trip planner to show you which bus or Metrorail line you should use. Bus fare is needed in cash (\$1.35 - subject to change) and Metro stations have fare card machines that take small bills.

Cell Phones and Pagers

As a courtesy to conference participants, attendees with cell phones and pagers are asked to turn them off while attending any presentation.

Conference Handouts

Attendees will be able to pick up any extra copies of speakers' handouts in the Professional Networking/Hospitality Room.

AMATYC Policies

Guest Policy

General Policy

AMATYC is a professional organization for mathematics educators, and AMATYC events must serve these members. 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—in particular, 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 childcare for guests. Call the hotel as early as possible for service. Arrangements represent a contractual agreement between the individual and the childcare 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.

Photo Release

A photographer may take candid shots during this event. These photographs may be used on the web or in printed materials as deemed appropriate by the organizers of the event. If you do not wish to have your photograph published, please notify the AMATYC Office in writing no later than a week after the end of the 2008 AMATYC Annual Conference in Washington, DC.



Program Grid

The program grid is a handy tool to help you maximize your conference experience and reflects program changes made after this conference program was printed.

Daily Summary by Program Key

Included in this program book are daily summary pages listing the sessions and workshops that begin within each timeslot under the appropriate program key. The code in bold indicates the primary area of focus for each event. You will find each day's summary just prior to the details of the day's events.

Workshops

A workshop includes active attendee participation, an in-depth treatment of a topic, and significant handouts. Workshop participants must be present at the beginning of the workshop to secure a seat in the workshop.

AMATYC continues to offer workshops at no additional fee to persons who register as conference participants. Entrance to a workshop will be monitored by the president on a first-come, first-served basis. Your official AMATYC conference name badge is required to gain admittance. Once all seats are filled, the workshop will be considered closed and no one else may enter. **Personal items may not be used to "reserve" seats and persons may not "reserve" seats for late arrivals. AMATYC makes no guarantee that any conference registrant will be admitted into a workshop.**

Program Key

To assist you in quickly identifying the general category of each session and workshop, a key code follows each session or workshop number. Check the Program Key box below and just before each day's schedule for this year's featured categories. Many sessions fall within multiple categories, and therefore have more than one code. The first code listed indicates the primary area of focus. Please understand there are many more possible strands than those noted, so the "General Interest" category is very diverse.

Washington, DC Program Key

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

SPECIAL CONTRIBUTIONS

Cecil CC – for providing a site for our local events web page

The College of Southern Maryland – for providing technology support for the conference

Hawkes Learning Systems – for providing the conference name badge holders

McGraw Hill – for providing the conference attendee bags

MMATYC – for local planning support

Montgomery College – for receiving and storing conference items and providing technology support for the conference

Mountain Empire CC – for providing signage for conference promotion and networking events

Northern Virginia CC – for donating the breakfast table mints and networking door prizes

Pearson Education – for general conference expenses

Pearson Education Senior Science Editor Don Beville – for providing the promotional logo buttons

Tidewater CC – for donating the breakfast table “7 in 1” tools and a special thank you to Visual Arts Center Professor Craig Nilsen for designing the conference logo

VMATYC – for local planning support and support for special networking events



PROFESSIONAL NETWORKING/ HOSPITALITY ROOM SPONSORS

Arizona Mathematical Association of Two-Year Colleges (ArizMATYC)

Arkansas Mathematical Association of Two-Year Colleges (ARKMATYC)

California Mathematics Council Community Colleges South (CMC³ South)

Georgia Mathematical Association of Two-Year Colleges (GMATYC)

Illinois Mathematics Association of Community Colleges (IMACC)

Indiana Mathematical Association of Two-Year Colleges (INMATYC)

Michigan Mathematical Association of Two-Year Colleges (MichMATYC)

Minnesota Mathematical Association of Two-Year Colleges (MinnMATYC)

Missouri Mathematical Association of Two-Year Colleges (MOMATYC)

North Carolina Association of Two-Year Colleges (NCMATYC)

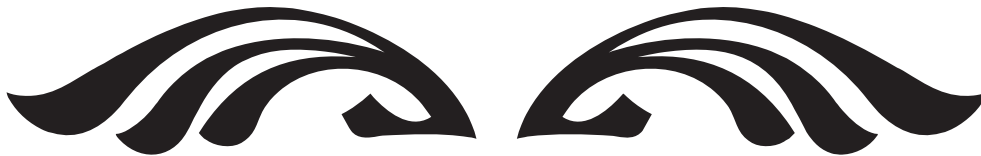
Ohio Mathematical Association of Two-Year Colleges (OhioMATYC)

Pacific Islands Mathematical Association of Two-Year Colleges (π MATYC)

South Carolina Mathematical Association of Two-Year Colleges (SOCAMATYC)

Washington Mathematical Association of Two-Year Colleges (WAMATYC)

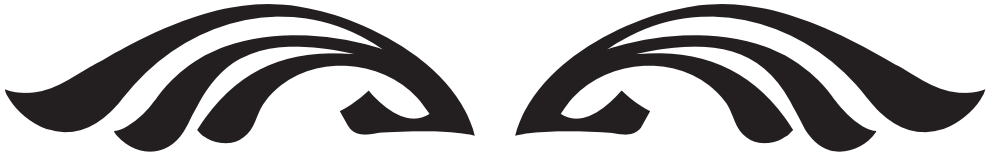
Wisconsin Mathematical Association of Two-Year Colleges (WisMATYC)



**AMATYC welcomes the 2007-2008
Cohort of ACCESS Fellows to the
34th Annual AMATYC Conference in Washington, DC:**

John Robert Bakken, Wake Technical CC, NC
Annette Benbow, Tarrant County College, TX
Heather Bubnick, Lorain County CC, OH
Elena Dilai, Monroe CC, NY
Evan Grant Evans, Jr., Frederick CC, MD
Heather Foes, Rock Valley College, IL
Kira Heater, Laramie County CC, WY
Benjamin King, Roane State CC, TN
Mark R. Marino, Eric CC, NY
Mark Monroe, Marshalltown CC, IA
Debra K. Olson, Spokane Falls CC, WA
Lauren Rossi Patson, Delaware Technical CC, DE
Marsha Pease, North Shore CC, MA
Anne Praderas, Austin CC, TX
William Rolli, College of Lake County, IL
Asher Shamam, Pasadena City College, CA
Roy Simpson, Cosumnes River College, CA
Kathleen L. Speicher, Corning CC, NY
Tina T. Starling, Wake Technical CC, NC
Jennifer Stovall, Montgomery College, MD
Janine Termine, Mercer County CC, NJ
Carol L. Tracy, Highland CC, KS
Sandra Wildfeuer, University of Alaska Fairbanks Interior, AK
Lisa Annette Williams, College of the Albemarle, NC





**AMATYC welcomes the 2008-2009
Cohort of ACCESS Fellows to the
34th Annual AMATYC Conference in Washington, DC:**

Aaron J. Altose, Cuyahoga CC, Highland Hills, OH
Teresa Collins, Owensboro CTC, Owensboro, KY
Annette G. Cook, Shelton State CC, Tuscaloosa, AL
Elizabeth Cunningham, Santa Barbara City College, Santa Barbara, CA
Roger A. Davidson, Yuba College, Marysville, CA
Teresa Foley, Asnuntuck CC, Enfield, CT
Megan J. Goodwin, Anoka Ramsey CC, Coon Rapids, MN
Eliud Joel Gutierrez, Tarrant County College - Northeast Campus, Hurst, TX
Katrina Keating, Diablo Valley College, Pleasant Hill, CA
Nicolle Lee, Rappahannock CC, Saluda, VA
Tina Lee, Haywood CC, Clyde, NC
Kevin McCandless, Evergreen Valley College, San Jose, CA
Ronald McKay, Salt Lake CC, Salt Lake City, UT
Frank Monterisi, Jr., Trident Technical College, Charleston, SC
Nancy Nichols, Laramie County CC, Cheyenne, WY
Crystal Ravenwood, Whatcom CC, Bellingham, WA
Troy Seffrood, UH - Leeward CC, Pearl City, HI
Lee Singleton, Watcom CC, Bellingham, WA
Mary E. Sullivan, Massasoit CC, Brockton, MA
Pete Surgent, CC of Baltimore County, Baltimore, MD
Amy Tankersley, Pellissippi State TCC, Knoxville, TN
Katerina Vishnyakova, Collin County CC, Frisco, TX
Meredith Watts, Massachusetts Bay CC, Wellesley, MA
Thomas Edward Wells, Delta College, University Center, MI



Daily Summary by Program Key* – Thursday, November 20

Code Time	A	C	D	DI	G	GE	H	IS	MI	RB	SS	ST	TP	TT
8:15	S5 S6 T3C T4A T4B T4C	S2 T2A	S6 S8 S9 T2B	S6 T3C	S2 S4 S7 T1B T2A T2C			S3 S8 S9 T3B	S1 S5 T2A T2C T4B	S2 S5 S6 S8 S9		T1A T1B T1C	S8	S1 S3 T2B T3A T3B T3C
9:30	S11 T3G T4D T4E T4F T4G	S13	S10 S13 S16 T2D T2F T4D		S10 S14 S15 T2D	S10 T2F T3G	S12	S11 S13 S16 T3D W1	S12 W1 S12 W1	S11	S16	T1D T2E W2	W2	T3D T3E T3F T4F
10:45	T4H T4I	S18 S19		S21	S18 S19 S20 S23	S20	S19	S21 S22 S21 S22	S17 S22 S17 S22	S23	S23	S22	S17	S21 S22 T3H T3I
12:30	S24	S24 W4	S27 W4 W5	S28 Q1				S25 S26 S27 S29 W3 W5	S25 S25	S28 W3 W4	S27 S29 W4			S26 S28 W7
1:45		S33	S35		S33			S30 S31 S34 S35	S33	S30 S35	S35	S34	S32	S31

*The code in bold indicates the primary area of focus for each event.

PROGRAM KEY

A	Assessment (Classroom, Course, Program)	MI	Mathematics Intensive (College Algebra, Precalculus and Beyond)
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G	General Interest	TP	Teacher Preparation
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H	History of Mathematics		
IS	Instructional Strategies (Learning Styles, Teaching Methodologies, including Modeling)		



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☞☞IMPORTANT: See Workshop Attendance Policy on page 17.☞☞

===== 8:15 AM =====

8:15 am - 9:05 am S1 TT, MI International Ballroom East

The Magic of Calculus

Presenters: Thomas (T. J.) Johnson – Blue Ridge CC, Weyers Cave, VA
 Lynne Ryan – Blue Ridge CC, Weyers Cave, VA

Presenter: Robert Frank – Westmoreland County CC, Youngwood, PA

This dramatic presentation, using live actors interacting with Java content projected onto a smart board, will tell the story of the Fundamental Theorem of Calculus. The unique collaboration will demonstrate how using a narrative in combination with kinetic learning can dramatically improve mastery and retention of difficult material.

8:15 am - 9:05 am S2 C, G, RB Georgetown West

A Simple Complexity: The Self-Organization of Mussel Beds

Presenters: Ann E. Commito – Frederick CC, Frederick, MD
 John A. Commito – Gettysburg College, Gettysburg, PA

Presenter: Nancy Shaw – Montgomery College, Rockville, MD

Do the complexities of nature arise from simple self-organization? This is the story of how a community college mathematics teacher teamed up with a marine scientist and his undergraduate students to investigate and explain the complexity of Maine mussel beds through data collection, computer modeling, statistics, and fractal analysis.

Thursday, November 20

8:15 am - 9:05 am S3 TT, IS Georgetown East

Scientific and Algebraic Thinking: Visualizing with Interactive Excel

Presenter: Scott A. Sinex – Prince George’s CC, Largo, MD

Presenter: Chris Allgyer – Mountain Empire CC, Big Stone Gap, VA

Using the stacking of cups, participants construct a mathematical model and explore it through simulations, all in Excel (prior experience unnecessary). The session connects mathematics to measurement and measurement error via a “click-and-think” engaging pedagogy using predict, test, and observe. The “how to” aspects and resources are provided at <http://academic.pgcc.edu/~ssinex/excelets>.

8:15 am - 9:05 am S4 G Jefferson West

AMATYC 101 - Enhancing Your First Conference Experience

Presenters: Jim Trefzger – Parkland College, Champaign, IL

Michael H. Hardie – Western Nevada College, Minden, NV

Presenter: Rinav Mehta – Central Piedmont CC, Charlotte, NC

AMATYC 101 is the first in a three-course sequence for members interested in learning about AMATYC.

AMATYC 101, designed for those attending an AMATYC conference for the first time, provides suggestions to make the most of your conference experience and the opportunity to meet other “first time” attendees.

8:15 am - 9:05 am S5 MI, A, RB Monroe East

Divide and Conquer!

Presenters: Vicki L. Gearhart – San Antonio College, San Antonio, TX

Paula L. McKenna – San Antonio College, San Antonio, TX

Presenter: Deann Leoni – Edmonds CC, Lynnwood, WA

Do your College Algebra students reflect the national trend, with less than 5% going on to take Precalculus?

Ours do, so our College Algebra now consists of two courses: one for non-STEM and one for STEM students.

This session will focus on the obstacles encountered and our successes so far.

8:15 am - 9:05 am S6 D, A, RB, DI Thoroughbred

Peaks and Valleys: The Redesign of Developmental Education

Presenter: Helen (Honey) Kirk – Palo Alto College, San Antonio, TX

Presenter: Michael J. Sullivan, III – Joliet Junior College, Joliet, IL

How successful are your developmental students? Over the last eight years, Palo Alto College has offered developmental mathematics using modular sections, flex scheduling, supplemental instruction, self-paced, and a lab component. This session will describe the reasons for choosing each format and the results using data and personal testimony.

8:15 am - 9:05 am S7 G Cabinet

Making Connections: Family & Friends

Presenter: Judy H. Williams – Tidewater CC, Virginia Beach, VA

Presenter: Donna Beatty – Ventura College, Ventura, CA

Did you come with a conference attendee, but want to find out what’s going on in the city? Drop into this session to meet other guests and to hear from AMATYC spouses and other family members what they like to do in Washington, DC.

8:15 am - 9:05 am S8 TP, D, IS, RB Map

Yes! A Fifth-grader Can Solve It!

Presenter: Darlene F. Winnington – Delaware Technical & CC, Newark, DE

Presenter: Robin Rufatto – Ball State University, Muncie, IN

Can fifth-graders solve systems of three equations with three unknowns faster than algebra students? Yes! More importantly, after solving the problem using manipulatives, they can learn to write the algebraic equations and relate the abstract to real world scenarios. Learn to use this process in your algebra classes.

Thursday, November 20

8:15 am - 9:05 am S9 IS, D, RB 1919 Grill

Motivating Students and Increasing Success Using Student Contracts

Presenter: George Woodbury – College of the Sequoias, Visalia, CA

Presenter: Scott L. Adamson – Chandler-Gilbert CC, Chandler, AZ

Many developmental students do not understand how to be successful in mathematics. The presenter uses a contract with his developmental mathematics students to motivate student involvement and success. The contract rewards students for displaying positive and effective behaviors. Results from two semesters of use will be presented.

8:30 AM

8:30 am - 9:45 am T1 Lincoln East

♦♦Themed Session♦♦

Elections and Balloting

Presiders: Klement Teixeira – Borough of Manhattan CC, New York, NY

Annette F. Gourgey – Borough of Manhattan CC, New York, NY

This themed session will focus on ways to explore elections and balloting in a statistics class and will provide specific examples. Participants will be encouraged to interact with questions and to showcase their own assignments or projects.

➤ 8:30 am - 8:45 am T1A ST

Using Political Polling to Explain Sampling Distributions

Presenter: Annette F. Gourgey – Borough of Manhattan CC, New York, NY

This presentation will explore how polls can be used to explain sampling distributions, sampling error, and statistical inference. Participants will draw repeated random samples to learn about sampling variation and how pollsters use the margin of error to draw inferences and project winners.

➤ 8:50 am - 9:05 am T1B G, ST

Elections and Balloting: “That’s Not Fair!”

Presenter: Candice H. Dance – Onondaga CC, Syracuse, NY

Four voting methods will be demonstrated. Examples will be shown to illustrate counterintuitive results that seem unfair.

➤ 9:10 am - 9:25 am T1C ST

Election Year Mathematics or the Correct Way to Count the Votes

Presenter: Steven Hundert – College of Southern Maryland, La Plata, MD

Is there more than one valid method for analyzing a set of data, and can the different methods yield different results? The votes of an election with five candidates have been cast and we must decide the winner. Depending on the method we use we may get different results.

➤ 9:30 am - 9:45 am T1D ST

Misconceptions in Statistics that Lead to Wrong Polling Results

Presenter: Avraham Goldstein – Borough of Manhattan CC, New York, NY

Common misconceptions related to estimating population proportion and population mean lead many statistics students to totally wrong results. Specific, real-life examples will be presented.

♦♦Themed Session♦♦

Applications in Action

Presiders: Jesse Williford – Wake Technical CC, Raleigh, NC
Jo-Ann G. Williams – Wake Technical CC, Raleigh, NC

Six technical math instructors will present their best classroom activity. It may be a problem to be solved, a classroom demonstration, an application, a lab or a project. Copies or links to copies of the materials will be provided. Use of technology will be emphasized.

- **8:30 am - 8:45 am** T2A C, G, MI
Chair Design and Layout: Working with Algebra, Trig, and Geometry
Presenter: Nan C. R. Jackson – Lansing CC, Lansing, MI
Programs in technical careers and skilled trades can be rich sources of applications for the classroom. In this example, industry guidelines for stair design lead to mathematics lessons involving algebraic reasoning, while the layout procedure for making a stair stringer brings in opportunities for applying skills in geometry and trigonometry.
- **8:50 am - 9:05 am** T2B D, TT
Connecting Geometry, Algebra, and Technology in a Useful Model
Presenter: Robert L. Kimball, Jr. – Wake Technical CC, Raleigh, NC
The speaker will use the new TI-Nspire to collect data from a problem involving geometry. This technology places the data directly into a spreadsheet from which an algebraic model can be found for the application.
- **9:10 am - 9:25 am** T2C G, MI
Conic Sections and Skis
Presenter: Brenda H. Alberico – College of DuPage, Glen Ellyn, IL
Students create a picture using conics, and find the conic equations in rectangular, polar, and parametric forms. They find the equation for the hyperbolas and parabolas for a pair of skis, and then calculate the arc length of the ski.
- **9:30 am - 9:45 am** T2D D, G
Navigating in Ocean Currents with Trigonometry
Presenter: John K. Knudson • 2005 Project ACCESS Fellow – Seattle Central CC, Seattle, WA
The speaker will discuss how he uses trigonometry to solve ocean navigation problems. In particular he will explain how you can use trigonometry to optimize your course through ocean currents.
- **9:50 am - 10:05 am** T2E ST
Basics Statistics and Regression Applied to Real Life
Presenter: Teri R. L. Figarola – Delaware Technical & CC-Stanton, Newark, DE
For an Intro to Statistics exam, students do a statistical study comparing the sale prices of three-bedroom homes in the region. This gives them a taste of what goes into compiling this type of study, as well as real-life practice in interpreting their results.
- **10:10 am - 10:25 am** T2F D, GE
Misleading Graphs
Presenter: Mark Harbison – Sacramento City College, Sacramento, CA
The speaker will discuss examples of distortions that newspapers and magazines tend to use with graphs and charts to distort the true distances. Every well-informed student should be aware of misleading graphs.

♦♦Themed Session♦♦

Math on the Web: Tools, Techniques, and Observations

Presiders: Mike E. Martin – Johnson County CC, Overland Park, KS
Mary Beth Orrange – Erie CC, Orchard Park, NY

The focus for these sessions is on the teaching and learning of mathematics through web resources and approaches. Talks will range from enabling tools and technologies to trends/techniques in distance learning to repositories of resources.

➤ 8:30 am - 8:45 am T3A TT

Tablet PCs: The Ultimate Tool for Math on the Web

Presenters: Fred Feldon – Coastline CC, Fountain Valley, CA
Jodi Cotten – Westchester CC, Valhalla, NY

A tablet pc is the ultimate tool to enhance learning, personalize your math classes, and create a sense of community. Learn how to link your lectures, annotate files, and use the handwriting tool and other tablet-specific programs.

➤ 8:50 am - 9:05 am T3B IS, TT

Cooperative Learning in Online Mathematics Courses

Presenter: Mark R. Marino • 2007 Project ACCESS Fellow – Erie CC, Williamsville, NY

Cooperative learning is very beneficial for engaging students in an online environment. This session will present how cooperative learning is integrated into online mathematics courses.

➤ 9:10 am - 9:25 am T3C A, DI, TT

Administrative Issues of Online Instruction

Presenter: Patty Amick – Greenville Technical College, Greenville, SC

This session will focus on various issues such as supervision and assessment of online courses and instructors, instructor loading, hiring/staffing concerns, and maintaining course quality and consistency with face-to-face offerings.

➤ ♦♦2007 TE Award Recipient♦♦

9:30 am - 9:45 am T3D IS, TT

Putting the Learning in Distance Learning

Presenter: Mary Beth Orrange – Erie CC-South, Orchard Park, NY

This session describes a variety of teaching techniques designed to improve online student learning.

➤ 9:50 am - 10:05 am T3E TT

Cheap, Easy Online Videos and Office Hours

Presenter: Denise H. Robichaud – Quinsigamond CC, Worcester, MA

Learn about an easy, inexpensive way to use live video and audio to supplement publishers' videos and hold online office hours for your distance students. All you need is a webcam, a headset, YouTube, and Windows Live Messenger. And, the last two are free!

➤ 10:10 am - 10:25 am T3F TT

An Overview of a Hybrid Mathematics Course

Presenter: Jodi Cotten – Westchester CC, Valhalla, NY

What makes a successful hybrid math course? This session will highlight the successes, failures, and changes made in the first year of teaching a hybrid math course.

➤ 10:30 am - 10:45 am T3G A, GE

New Learning Evaluation Instruments for Quantitative Literacy

Presenter: Wayne Mackey – University of Arkansas (retired), Fayetteville, AR

The emphasis on quantitative literacy is going to require new instruments to evaluate student learning. This talk will provide characteristics and examples of the new instruments compared with typical older instruments.

➤ 10:50 am - 11:05 am T3H TT

Mathematics on the Go!

Presenter: Oiyin Pauline Chow – Harrisburg Area CC, Harrisburg, PA

This session provides an overview of the podcasts project for both traditional and online math classes.

Thursday, November 20

- 11:10 am - 11:25 am T3I TT

Mathematics Content in the National Science Digital Library (NSDL)

Presenter: Mike E. Martin – Johnson County CC, Overland Park, KS

This talk will give an overview of math resources found in the National Science Digital Library. Various portals, including AMSER and MathDL, will be emphasized.

8:30 am - 11:25 am

T4

Lincoln West

♦♦Themed Session♦♦

Mathematics Placement and Assessment and *Beyond Crossroads*

Presiders: Connie Buller – Metropolitan CC, Omaha, NE

Benjamin P. Nicholson – Montgomery College, Rockville, MD

Presented by the Placement and Assessment Committee, this themed session explores strategies and ideas in mathematics placement and assessment. The presentations are designed to emphasize placement and assessment concepts as stated in AMATYC's *Beyond Crossroads* document.

- 8:30 am - 8:45 am T4A A

Preventing Grade Drift – In My Own Classroom

Presenter: Connie Buller – Metropolitan CC, Omaha, NE

As we seek to improve student performance and retention, it is tempting to allow grades to drift upward. This doesn't serve students well in the long run, but how can we be sure we each personally haven't been doing this?

- 8:50 am - 9:05 am T4B A, MI

The Missing Placement Test Needed for Calculus

Presenters: James (Rob) Eby • 2005 Project ACCESS Fellow – Blinn College-Bryan Campus, Bryan, TX

Jeffrey Downs – Western Nevada College, Fallon, NV

Calculus students need to understand how to read graphs. The presenters will describe a placement test, along with some follow-up exercises, they designed and use to assess these skills.

- 9:10 am - 9:25 am T4C A

A Multiple Measures Approach to Mathematics Placement

Presenters: Edwin G. (Ed) Owens – Pennsylvania College of Technology, Williamsport, PA

Joanna K. Pruden – Pennsylvania College of Technology, Williamsport, PA

The Mathematics Department at Pennsylvania College of Technology has implemented a multi-dimensional approach to the initial placement of its students. This faculty-led process uses multiple measures to assign placement levels and helps ensure that students have the opportunity to achieve success in their math courses.

- 9:30 am - 9:45 am T4D A, D

Using Course Level Assessment for Developmental Mathematics

Presenter: Sharon E. Gott – Eastern West Virginia Community & Technical College, Moorefield, WV

The speaker will present course level assessment results obtained over several semesters at Eastern West Virginia Community and Technical College. Using this data, the department made changes to their developmental math classes which, hopefully, will produce better results in these assessments this year.

- 9:50 am - 10:05 am T4E A

College Algebra Assessment at the Course and Program Levels

Presenter: Dana T. Calland – Maysville Community & Technical College, Maysville, KY

Learn how the mathematics department at the presenter's college developed common course level and program level (general education) assessments for college algebra, then expanded that work to include developmental mathematics courses. Handouts will include student learning outcomes and rubrics used by the department.

Thursday, November 20

- **10:10 am - 10:25 am** T4F A, TT
Using Software for Course Assessment
Presenter: Benjamin P. Nicholson – Montgomery College, Rockville, MD
Montgomery College recently implemented a new software package to allow instructors to electronically submit data from common exams. This presentation will summarize the process and results from the 2007-2008 school year.

- **10:30 am - 10:45 am** T4G A
Assessment of a New Three-Quarter Algebra Sequence
Presenter: Edward A. Gallo – Sinclair CC, Dayton, OH
Sinclair expanded its two-quarter sequence in developmental algebra to a three-quarter sequence. This presentation provides an assessment of the new sequence.

- **10:50 am - 11:05 am** T4H A
Mastery Skill Quizzes Make the Difference
Presenter: Laura Bracken – Lewis Clark State College, Lewiston, ID
The bottom line that has made all the difference: students complete all of their skill quizzes without error or fail the course.

- **11:10 am - 11:25 am** T4I A
Promoting Classroom Assessment - for Everyone's Benefit
Presenter: Robert L. Kimball, Jr. – Wake Technical CC, Raleigh, NC
Assessing the degree to which any one lesson was successful at achieving the desired objectives is important for the student, for the instructor, and for those responsible for the curriculum. Faculty must formally assess the learning that takes place in their classroom and document those results.

===== 9:30 AM =====

9:30 am - 10:20 am S10 G, GE, D **International Ballroom East**

Mathematics in Movies and Television - Laugh and Learn!

Presenter: Richard Zucker – Irvine Valley College, Irvine, CA

Presenter: Maria Andersen – Muskegon CC, Muskegon, MI

This eclectic collection of video clips from movies and television programs is sure to make you gasp, groan, cringe, laugh out loud and maybe even blush. There are wonderful lessons here on topics from pi to primes to the Pythagorean Theorem, and much more. Your students will love them!

9:30 am - 10:20 am S11 IS, RB, A **Georgetown West**

How Did They Do That? Successful Implementations of *Beyond Crossroads*

Presenter: Bruce W. Yoshiwara – Los Angeles Pierce College, Woodland Hills, CA

Presenter: Dale Johanson – Northeast CC, Norfolk, NE

The presentation will describe projects emerging from the *Beyond Crossroads* summer 2008 workshops and highlight success stories from schools that followed the guidelines of *Beyond Crossroads* by embracing change to improve mathematics education. Attendees will be invited to share their own successful initiatives.

9:30 am - 10:20 am S12 H, MI **Jefferson West**

The Square Root of WHAT???

Presenter: Joanne V. Peebles – El Paso CC-Transmountain Campus, El Paso, TX

Presenter: Jim Brunner – University of Arkansas, Fayetteville, AR

Every year students ask: "Why do we have to study the square root of -1? What is it used for?" Let's look at some of its history, some of its beauty, and some places it can be used. (Did you know it has a connection with surveying?)

Thursday, November 20

9:30 am - 10:20 am S13 D, IS, C Thoroughbred

Literacy Strategies in Teaching and Learning Developmental Algebra

Presenters: **Barbara Tozzi – Brookdale CC, Lincroft, NJ**
 Rita Hall Marshall – Brookdale CC, Lincroft, NJ
Presenter: **Geoffrey Akst – Borough of Manhattan CC, New York, NY**

Brookdale CC faculty from the reading and mathematics departments will introduce literacy strategies and demonstrate how those strategies were successfully incorporated into the teaching and learning of developmental algebra. Participants will have the opportunity to collaboratively use literacy strategies during the session.

9:30 am - 10:20 am S14 G Cabinet

AMATYC Affiliate Sharing Session - Ideas for Affiliates

Presenters: **Bernadette Sandruck – Howard CC, Columbia, MD**
 Sarah Martin – Virginia Western CC, Roanoke, VA
Presenter: **Sandra Bowen Franz – University of Cincinnati/College of Applied Science, Cincinnati, OH**

This discussion will offer current and future affiliate leaders time to network, ask questions, and share ideas. Topics of discussion will include program and conference planning, how to strengthen and grow your affiliate, and other questions from the group. Share your ideas and learn from others!

9:30 am - 10:20 am S15 G Map

Two-Year Colleges' Role at ICME-11 in Monterrey, Mexico, July 2008

Presenter: **Sadie C. Bragg – Borough of Manhattan CC, New York, NY**
Presenter: **Nancy J. Rivers – Wake Technical CC, Raleigh, NC**

In July 2008, the eleventh International Congress on Mathematical Education (ICME-11) met in Monterrey, Mexico, where faculty from non-university tertiary institutions hosted a discussion on current problems in mathematics education. Join the two-year faculty who attended ICME-11 and the one-day special workshop on classroom assessment, and hear the outcomes.

9:30 am - 10:20 am S16 SS, D, IS 1919 Grill

Effective Methods of Tutor Training in Remedial Mathematics

Presenters: **Marie H. Hipple – University of Cincinnati, Cincinnati, OH**
 Bella Z. Zamansky – University of Cincinnati, Cincinnati, OH
 Ralph J. Kempheus – University of Cincinnati, Cincinnati, OH
Presenter: **Jamie Thomas – University of Wisconsin-Manitowoc, Manitowoc, WI**

A tutoring center, where students can get tutoring free of charge, was created in the organization of the developmental program at the University of Cincinnati. As the program grew so did the need for effective training of the math tutors. Ideas and methods of this training will be shared.

9:30 am - 11:30 am W1 IS, MI Georgetown East

Make It Real! Classroom Activities that Energize Students

Presenter: **Frank C. Wilson – Chandler-Gilbert CC, Mesa, AZ**
Presenter: **Kristy Erickson – Cecil College, North East, MD**

Too often students fail to see the connection between mathematics and their personal lives. By using dynamic classroom activities based on real-world data sets, students learn more, retain more, and are better motivated to do mathematics. Participants attending this workshop will receive a free workbook of classroom activities.

9:30 am - 11:30 am W2 TP, ST Monroe East

Take a Chance on Math: Probability for Preservice Elementary Teachers

Presenter: **Andy D. Jones – Prince George's CC, Largo, MD**
Presenter: **Joanne Weinberg – Prince George's CC, Largo, MD**

Students sometimes have wrong intuitions about probability. Instructors must understand these intuitions are powerful constructs and may undermine teaching and learning regardless of the clarity and logic of classroom instruction. This hands-on workshop will explore probabilistic reasoning using various classroom activities, approaches (theoretical, experimental, geometric), and concrete models.

Thursday, November 20

10:00 AM

10:00 am - 11:30 am

C1

Military

Commercial Presentation—McGraw-Hill Higher Education

Using Online Homework Effectively for Better Retention

Presenter: Alina Coronel – Miami Dade College, Miami, FL

This instructor-led discussion will focus on using online homework to guide struggling students to success in mathematics. Effective implementation methods of McGraw-Hill's Math Zone, which offers a built-in diagnostic assessment tool with artificial intelligence, will be demonstrated

10:00 am - 11:30 am

C2

Hemisphere

Commercial Presentation—Teachers for Learners

Constructing Concepts, Building Vocabulary

Presenters: Catherine Salclutti – EduChange, Inc., New York, NY

Nicolle Zapien – Teachers for Learners, San Francisco, CA

In this hands-on workshop, instructors will learn interactive strategies for building math concepts and for connecting those concepts to math vocabulary. Useful for whole class, small group and tutorial settings, Concept Construxions is a tool designed by experienced math educators to support the retention of algebraic, geometry, and prob/stats concepts.

10:45 AM

10:45 am - 11:35 am

♦Committee Meeting♦

Map

Developmental Mathematics

Chair: Jack W. Rotman – Lansing CC, Lansing, MI

This meeting will focus on reports from our two subcommittees. The majority of the meeting will be spent on designing our new Developmental Math Traveling Workshop. We welcome anyone with ideas or expertise (or both).

10:45 am - 11:35 am

S17 MI, TP

International Ballroom East

Algebra for Precalculus and Calculus Students: Mindful Manipulation

Presenters: Philip Cheifetz – Nassau CC, Garden City, NY

Ellen Schmierer – Nassau CC, Garden City, NY

Presenter: Pat Averbeck – Edmonds CC, Lynnwood, WA

This presentation will highlight some basic skills that must be learned in a college algebra class in order to be successful in precalculus and calculus.

10:45 am - 11:35 am

S18 C, G

Georgetown West

♦♦2007 TE Award Recipient♦♦

Experiences with NSF Grant DUE 0003065 -Tech Mathematics for Tomorrow

Presenter: Mary Ann Hovis – Rhodes State College, Lima, OH

Presenter: Judith (Judy) A. King – New Hampshire Technical Institute, Concord, NH

An overview will be presented along with unexpected adventures along the way. This project brought together people from business/industry, faculty from other disciplines, and mathematics faculty from across the country to create a vision for the mathematics needs of students in emerging technologies. How did it get done?

Thursday, November 20

10:45 am - 11:35 am S19 H, G, C Jefferson West

Plato and Mathematics

Presenter: David Price – Tarrant County College-Southeast Campus, Arlington, TX

Presenter: Kate Danforth – Corning CC, Corning, NY

Plato's belief in the fundamental importance of mathematics led him to encourage the study of the subject at his Academy. This presentation will discuss the major achievements of the mathematicians associated with him, as well as the role of mathematics in his own philosophical and scientific thought.

10:45 am - 11:35 am S20 G, GE Lincoln East

"Friday Specials" to Enliven Your Class!

Presenter: Jack Weiner – University of Guelph, Guelph, Ontario, Canada

Presenter: Jack Webb – Casper College, Casper, WY

Fridays near the end of class, the presenter says, "Pens down, books closed. It's Friday Special time." He then shares a funny, sometimes outrageous, misuse of math. Pavlov like, the students salivate at the prospect of the Friday Special at week's end. A package of Specials will be distributed.

10:45 am - 11:35 am S21 IS, DI, TT Monroe West

Course Redesign - Paradox or New Paradigm for Standards-based Math?

Presenters: Judy Ackerman – Montgomery College, Rockville, MD

Robert L. Carson – Hagerstown CC, Hagerstown, MD

Byron A. Dyce – Santa Fe CC, Gainesville, FL

Susan M. Knights – Boise State University, Boise, ID

Stephanie Pepin – Montgomery College, Rockville, MD

Presenter: Beryl Stemen – Owens CC, Toledo, OH

A panel discusses how course redesign in the first two years of college mathematics is being implemented in a variety of different institutions. Does course redesign in mathematics improve student success? Is course redesign a standards-based approach to mathematics instruction?

10:45 am - 11:35 am S22 TT, IS, MI, ST Thoroughbred

Applications of Student Response Systems: Calculus and Statistics

Presenters: Bridgette L. Jacob – Onondaga CC, Syracuse, NY

Jennifer M. Bergamo – Onondaga CC, Syracuse, NY

Kathleen A. Cantone – Onondaga CC, Syracuse, NY

Presenter: Ana Jiménez – Pima CC, Tucson, AZ

The presenters have incorporated the student response system technology into their calculus and statistics courses. Attendees will see applications and clicker questions, then experience first-hand the interactive nature of this technology and the excitement it creates in the classroom.

10:45 am - 11:35 am S23 RB, G, SS 1919 Grill

Math Success for All: How to Help Minority Students Succeed

Presenter: Kim Tsai Granger – St. Louis CC-Wildwood, Wildwood, MO

Presenter: Carol Murphy – San Diego Miramar College, San Diego, CA

Hispanic and African-American students are less likely to succeed in a community college math class than white students. Why? What can we do to narrow the achievement gap? This presentation, based on doctoral research, includes practical tips to improve student success.

12:30 pm - 1:20 pm

♦Committee Meeting♦

1919 Grill

Mathematics for AAS Programs

Chair: Jesse Williford – Wake Technical CC, Raleigh, NC

The Mathematics for AAS Programs Committee will discuss the success of its themed session, including ways it could be improved and whether or not to conduct another themed session in 2010. The committee will also discuss and establish subcommittees and subcommittee chairs.

12:30 pm - 1:20 pm

S24 C, A

International Ballroom East

Achieve's ADP Assessment Partnership: Algebra II End-of-Course Exam

Presenters: Laura Slover – Achieve, Inc., Washington, DC

Tracy Halka – Achieve, Inc., Washington, DC

Presenter: Sharon F. Welker – Wake Technical CC, Raleigh, NC

Achieve and 14 states have collaborated to develop an end-of-course Algebra II Exam that was first administered in spring 2008. This presentation will provide background information on the exam and its goals, including improving high school curriculum and instruction and serving as an indicator of readiness for credit-bearing college courses.

12:30 pm - 1:20 pm

S25 MI, IS

Georgetown West

The Right Stuff ... or Is It?

Presenter: Robert L. Kimball, Jr. – Wake Technical CC, Raleigh, NC

Presenter: Virginia Swenson – Des Moines Area CC, West Des Moines, IA

How would you describe the course you offer to students who are not planning to take the three-semester sequence of calculus? What is “the right stuff” for that course? Results from the NSF-supported grant to AMATYC will be presented. What you can do to refocus your course will be shared.

12:30 pm - 1:20 pm

S26 IS, TT

Jefferson West

Mathematics Podcasting to Go - Design, Purpose, Format, Delivery

Presenter: Oiyin Pauline Chow – Harrisburg Area CC, Harrisburg, PA

Presenter: Jim Culliver – College of Southern Nevada, Las Vegas, NV

An overview of the design, purpose, format, and delivery of math podcasts in various courses will be presented. Topics of discussion include challenges in the creation of audio files and accompanying lecture notes, student access in the public domain, course usage statistics, and student success.

12:30 pm - 1:20 pm

S27 SS, D, IS

Jefferson East

Integrating Mathematics Study Skills into Developmental Math Classes

Presenters: Lynn Marecek – Santa Ana College, Santa Ana, CA

Mary Anne Anthony – Santa Ana College, Santa Ana, CA

Presenter: Joan Elizabeth DeBello – St. John's University, Jamaica Queens, NY

Do your developmental math students have even a clue about study skills needed for college success? Do they know that there are specific strategies they can use to become successful in mathematics? Learn about worksheets and activities that are designed to help develop effective study skills.

12:30 pm - 1:20 pm

S28 TT, DI, RB

Lincoln East

Training and Supporting Online Faculty

Presenter: Peg Pankowski – College of Southern Nevada, North Las Vegas, NV

Presenter: David Dudley – Scottsdale CC, Scottsdale, AZ

Do you think your school is typical with regard to the training and support available for online faculty? A survey of AMATYC members originally conducted in fall 2002 was repeated in 2008 to determine whether professional development opportunities for online faculty had improved. Come learn whether the situation has changed.

Thursday, November 20

12:30 pm - 1:20 pm S29 SS, IS Thoroughbred

Am I My Students' Mother?

Presenters: Nancy J. Rivers – Wake Technical CC, Raleigh, NC
 Alison J. Schubert – Wake Technical CC, Raleigh, NC
 Jo-Ann G. Williams – Wake Technical CC, Raleigh, NC

Presider: Lynn Trimpe – Linn-Benton CC, Albany, OR

Do you find yourself constantly reminding students of things? Are we doing too much hand-holding? How effective are we in producing independent learners? Are these futile efforts to reduce our students' anxiety? Participants will be introduced to some of our solutions and then develop their own for given scenarios.

12:30 pm - 2:00 pm C4 Hemisphere

Commercial Presentation—Maplesoft

Clickable Calculus: Syntax-Free Maple in the College Math Curriculum

Presenter: Robert Lopez – Maple Fellow, Waterloo, Ontario, Canada

By solving a spectrum of standard (and not-so-standard) problems drawn from precalculus, calculus of one and several variables, linear algebra, differential equations, and vector calculus, this session will demonstrate the potential of “Clickable Calculus” to enrich the mathematical experience. Overall, teaching and learning become more efficient and effective.

12:30 pm - 2:30 pm Q1 DI Lincoln West

Department/Division Chairs' Colloquium

Presenters: Anne Dudley – Glendale CC, Glendale, AZ
 Peter Collinge – Monroe CC, Rochester, NY

Presider: Kathy Rogotzke – North Iowa Area CC, Mason City, IA

Issues and concerns related to mathematics department and division chairs will be shared and discussed. This is your chance to dialog about common issues with other department leaders in an informal, but structured setting. Sponsored by the Department/Division Issues Committee.

12:30 pm - 2:30 pm W3 IS, RB Georgetown East

♦♦2007 TE Award Recipient♦♦

Rate, Ratio, and Average Rate of Change: What Does It All Mean?

Presenter: Scott L. Adamson – Chandler-Gilbert CC, Chandler, AZ

Presider: Larisa Russell – Rhodes State College, Lima, OH

Average rate of change is often presented computationally. Students do not know what the computation means and confuse this computation with the arithmetic mean. This workshop will explore research involving these issues and will present ways to help students make sense of the ideas rates, ratios, and rate of change.

12:30 pm - 2:30 pm W4 D, SS, C, RB Monroe West

California Basic Skills Initiative: What's It All About?

Presenters: Barbara S. Illowsky – DeAnza College, Cupertino, CA
 Wade Ellis, Jr. – West Valley College, Saratoga, CA

Presider: Lucio Prado – Borough of Manhattan CC, New York, NY

The California Basic Skills Initiative is a statewide project to improve student success in developmental courses. It produced the country's largest research-based literature review of effective practices in basic skills education. Learn the multi-year activities of the BSI and how the findings can improve teaching and learning at your college.

Thursday, November 20

12:30 pm - 2:30 pm W5 IS, D Monroe East

Fun & Exciting Activities for Algebra Students

Presenters: Sally D. Sestini – Cerritos College, Norwalk, CA
 Mary E. Clarke – Cerritos College, Norwalk, CA

President: Diane Martling – William Rainey Harper College, Palatine, IL

This interactive, hands-on workshop will introduce activities that can be used to engage elementary and intermediate algebra students. Under a Title V grant, Cerritos College faculty are using these activities to improve success rates. Handouts will be provided.

12:30 pm - 2:30 pm W6 TP, TT, IS, D Map

An Intelligent Partnership of Mathematics, Technology, & Manipulatives

Presenter: Darlene Whitkanack – Dominican University, River Forest, IL

The preparation of teachers must focus on so many things that often something gets slighted or there is no coherence among the components. Both technology and manipulatives are critical in engaging students and emphasizing deep mathematical comprehension. This workshop will explore whole numbers, fractions, and algebra topics.

12:30 pm - 2:30 pm W7 TT Chevy Chase

An Introduction to Graphing Equations and User Controls in Excel 2007

Presenter: Paul Seeburger – Monroe CC, Rochester, NY

President: Beverly A. Meyers – Jefferson College, Hillsboro, MO

Learn to use Excel 2007 to graph functions, modify charts, record macros, and create dynamic mathematical explorations using buttons, drop-down menus, scrollbars, etc. Some familiarity with Excel is recommended. Includes a small amount of simple Visual Basic programming. A step-by-step handout will be provided.

===== 1:30 PM =====

1:30 pm - 4:45 pm Poster Session Concourse

AMATYC Poster Session 2008

Are you unhappy with the way you are teaching and the progress being made by your students? Come to the poster session, get new ideas, leave refreshed and invigorated. Your colleagues who have found ways to fund innovations will share not only their results but also how they found the funding to allow them time to develop their innovative ideas. *(Closed from 3:00 pm to 4:30 pm for the Opening Session.)*

➤ **What is MOC? Math Online Competition!**

Principal Investigators: Jerry J. Chen – Suffolk County CC, NY
 Myung-Chul Kim – Suffolk County CC, NY
 Bridget Young – Suffolk County CC, NY
 Vera Hu-Hyneman – Suffolk County CC, NY
 Russell Coe – Suffolk County CC, NY
 Christine Brady – Suffolk County CC, NY

The MOC is an online competition where students answer one challenging problem per week. The purposes of this competition are to stimulate students' interest in real life applications of mathematics, to appreciate the beauty of mathematics, and to have fun.

➤ **CODEE: A Community of Ordinary Differential Equations Educators**

Principal Investigator: Mike E. Martin – Johnson County CC, Overland Park, KS

Through a recent NSF phase II grant, the CODEE initiative is expanded to encourage the wide-spread adoption of modeling projects and computer experiments in Calculus and ODE courses. Work includes establishing a digital library through MathDL and the NSDL, developing an advanced Internet-accessed numerical solver/visualizer, and offering intensive short courses.

Thursday, November 20

- **Dynamic Visualization Tools for Multivariate Calculus**
Principal Investigator: Paul Seeburger – Monroe CC, NY
This project includes four parts: 1. Create an online multivariate calculus visual exploration environment; 2. Create a series of focused applets covering various 3D concepts of calculus; 3. Write materials (guided explorations/labs) to encourage students' use of these resources; and 4. Assessment and dissemination of these materials and resources.
- **Jackson State CC Developmental Math Redesign**
Principal Investigator: Tim Britt – Jackson State CC, Jackson, TN
Jackson State CC under a FIPSE grant has developed and piloted an emporium/buffet model of individualized mathematics content to meet students' needs depending on learning styles, assessment, and career goals. Our SMART Math Center where students Survive, Master, Achieve, Review and Transfer is an integral part of the project.
- **Centroids in Geometry and Physics – Case of Quadrilateral Regions**
Principal Investigator: Ayoub B. Ayoub – Penn State Abington, Abington, PA
The topic of centroids in geometry has a close connection to physics. In the poster, it will be shown how to use the principle of moments to find the centroid of a convex quadrilateral region in five different ways.
- **Increasing Hispanic Enrollment in STEM Fields at Arizona Western College**
Principal Investigator: Daniel Russow – Arizona Western College, Yuma, AZ
This project will increase the number of Hispanic students entering STEM areas. Alternative delivery methods for developmental math courses, diagnostic placement, computer-assisted instruction, seven computer equipped math classrooms and a Math Learning Center will assist in the achievement of this goal. The grant is funded by the Department of Education.
- **Math Across the Curriculum**
Principal Investigators: Carol Hay – Middlesex CC, Lowell, MA
Jessie Klein – Middlesex CC, Lowell, MA
Middlesex CC, under a 3-year NSF grant, is promoting Math Across the Curriculum focusing on the community college level. Year one of the grant is in-house, but years two and three include schools who have applied to participate. The third year will focus on learning communities.
- **The Right Stuff: Appropriate Mathematics for All Students**
Principal Investigator: Robert L. Kimball, Jr. – Wake Technical CC, Raleigh, NC
This award supports AMATYC Traveling Workshops designed to encourage the use of best practices in courses below Calculus. In particular, it promotes changes to the course(s) taken by non-STEM students. Projects, written by AMATYC members, use spreadsheets, writing, and emphasize content not normally found in traditional college algebra courses.
- **Globalizing the Brief Calculus Curriculum**
Principal Investigator: Melinda Rudibaugh – Chandler-Gilbert CC, Chandler, AZ
The goal of the research project was to make the highly condensed brief calculus curriculum more relevant to today's workforce-in-training. Students taking this dreaded math course need motivation and information to work toward successful completion. Projects and capstone assignment will be shared.
- **Mathematics Across the Community College Curriculum (MAC³)**
Principal Investigators: Christie Gilliland – Green River CC, Auburn, WA
Rebecca Hartzler – Seattle Central CC, Seattle, WA
Deann Leoni – Edmonds CC, Lynnwood, WA
Jim Roznowski – Delta College, University, MI
The Mathematics Across the Community College Curriculum (MAC³) Project, lead by AMATYC, is a national dissemination project funded by the National Science Foundation. Through institutes and workshops, MAC³ supports faculty from all disciplines in developing course materials that integrate mathematics or quantitative reasoning across the curriculum.
- **AMATYC Traveling Workshops**
Coordinator: Patrick Averbeck – Edmonds CC, Lynnwood, WA
AMATYC Traveling Workshops are a cost effective way to bring customized professional development workshops to colleges and affiliates. Besides the annual conference and summer institutes, traveling workshops provide another opportunity for professional development that AMATYC offers to its members.

Thursday, November 20

➤ **Planning Digital Products to Strengthen Two-Year College Mathematics**

Principal Investigators: Bruce Yoshiwara – Los Angeles Pierce College, Woodland Hills, CA
Richelle (Rikki) Blair – Lakeland CC, Kirtland, OH

The goals were to plan and develop digital products and disseminate the messages in the 2006 AMATYC Standards document, *Beyond Crossroads; Implementing Mathematics Standards in the First Two Years of College*; and to equip faculty who teach mathematics at this level to meet the mathematics learning needs of STEM students.

➤ **Helping Math Students Succeed Using a Computer Tutorial**

Principal Investigators: Amy Young – Navarro College, Corsicana, TX
Lesla Martin – Navarro College, Corsicana, TX

This is an overview of our institution's success using an interactive lab-based system in our developmental math courses. The presentation will include data on the effectiveness of the software on the grades of the students. We will also be available to discuss our process of choosing a software program.

➤ **What Can You Do with a 3 x 5 Card?**

Principal Investigators: Kari Arnoldsen – Snow College, Ephraim, UT
Tamra German – Snow College, Ephraim, UT

We have been experimenting with increased learning by using a simple thing like a 3 x 5 card. We will demonstrate examples, ideas and results of various uses of this simple and inexpensive idea. You will be amazed. We would welcome your own ideas.

➤ **Creating Videos for MCTC Mathematics & Energy Systems Distance Learning Courses**

Principal Investigators: Darrell H. Abney – Maysville CTC, Maysville, KY
Dana T. Calland – Maysville CTC, Maysville, KY

Abney and Calland attended a Technology in Mathematics Workshop in June 2008. Since their return, they have been working with MCTC Mathematics and Energy Systems instructors to create short videos for use in distance learning hybrid and online courses. Samples will be available for viewing.

===== 1:45 PM =====

1:45 pm - 2:35 pm

♦Committee Meeting♦

1919 Grill

Placement and Assessment

Chair: Connie Buller – Metropolitan CC, Omaha, NE

The Placement and Assessment Committee (PAC) will discuss goals, objectives, and a possible themed session for 2009. The Classroom Assessment, Course and Program Assessment, and Placement subcommittees will hold separate meetings to discuss issues in their areas, looking together for solutions.

1:45 pm - 2:35 pm

S30 IS, RB

International Ballroom East

♦♦Featured Speaker♦♦

Gender Differences and the Teaching of Mathematics

Presenter: Abigail Norfleet James – Germanna CC, Locust Grove, VA

Presenter: Michelle Younker – Rhodes State College, Lima, OH

The belief that women will have trouble with mathematics is not well supported and many women excel in a variety of math fields. A brief survey of recent findings in neurocognitive gender differences will serve as a basis for specific classroom strategies to help women succeed in math.

1:45 pm - 2:35 pm

S31 TT, IS

Georgetown West

◆◆2007 TE Award Recipient◆◆

Adapting Face-to-Face Course Materials for Distance Learning

Presenter: Lois A. Martin – Massasoit CC, Brockton, MA

Presenter: Sandra J. (Sandy) Carlson – Pennsylvania College of Technology, Williamsport, PA

Learn how to adapt your standard course materials for use in an online class. Class session notes from a tablet PC in a lecture section were modified for use in an online course. Podcasts and audio-enhanced files helped to create course materials that reflected the instructor's classroom style.

1:45 pm - 2:35 pm

S32 TP

Jefferson West

Community Colleges' Role in Math Teacher Education: A National Survey

Presenter: Mona Fabricant – Queensborough CC, Bayside, NY

Presenter: Kristina K. Schmid – Columbus State CC, Columbus, OH

Innovative programs developed by various states and universities to allow students to complete at least two years of a mathematics education curriculum at a community college will be discussed. The recommended curriculum and requirements for both middle school and high school teachers will be compared and summarized.

1:45 pm - 2:35 pm

S33 G, C, MI

Jefferson East

The Mathematics of the Monuments

Presenter: Jim Roznowski – Delta College, University Center, MI

Presenter: Denise Johansen – University of Cincinnati/College of Applied Science, Cincinnati, OH

Washington, DC, is a monumental place for mathematics but what mathematics can you find in the monuments? This presentation will look at the mathematics that can be found in some of the monuments on The National Mall. Sites will include: The Vietnam Veterans Memorial, The Lincoln Memorial, and The Washington Monument.

1:45 pm - 2:35 pm

S34 ST, IS

Lincoln East

Statistics in Action: Explore a Successful Service-Learning Project

Presenter: Mary E. DeHart – Sussex County CC, Newton, NJ

Presenter: Stephen (Steve) A. Krevisky – Middlesex CC, Middletown, CT

One of the challenges in teaching statistics is to convince students that the course is exciting and relevant. This presentation will relate how an extraordinary service-learning project has given more than seven hundred students the opportunity to design and conduct surveys and see the results of their work published.

1:45 pm - 2:35 pm

S35 SS, D, IS, RB

Thoroughbred

Making It All Add Up in a Learning Community

Presenters: Mary Beth Angeline – Pierpont C&TC of Fairmont State University, Fairmont, WV

M. Jean Bolyard – Pierpont C&TC of Fairmont State University, Fairmont, WV

Linda A. King – Pierpont C&TC of Fairmont State University, Fairmont, WV

Presenter: George Woodbury – College of the Sequoias, Visalia, CA

Learning communities linking developmental math courses with other freshman year courses positively effect student progress and retention. Learn how to form learning communities, how to structure linked assignments, and how to avoid some common pitfalls.

Thursday, November 20

===== 3:00 PM =====

OPENING GENERAL SESSION

International Ballroom Center ♦ 3:00 pm - 4:30 pm

Welcome/Introductions

Richelle (Rikki) Blair
AMATYC President

Keynote Speaker

Freeman Hrabowski
*21st Century Math Education:
Promoting Success Among All Students*

===== 4:45 PM =====

GRAND OPENING OF THE 2008 AMATYC EXHIBITS

Exhibit Hall ♦ 4:45 pm - 7:30 pm

Ribbon Cutting by Jay Martin, Exhibits Chair and
Judy Williams, Washington, DC Local Events Coordinator

===== 7:00 PM =====

AMATYC FORUM

Georgetown West ♦ 7:00 pm - 8:00 pm

Combining the Constitution and By-laws

Moderators: Irene Doo and Martha Goshaw

The Combining the Constitution and By-laws Committee was charged in 2006 with combining the AMATYC Constitution and By-laws. This forum is the first input hearing and will present the draft combined By-laws to the delegates. Substantive changes to the By-laws will be highlighted and discussed by a panel consisting of the committee members.

Fuzzy Slippers and PJs Welcome

Professional Networking/Hospitality Room ♦ 7:00 pm - 10:00 pm

Drop in for conversation, games, and snacks! Bring your favorite CD to play. Dress comfortably.

===== 8:30 PM =====

AMATYC FOUNDATION PRESENTS

“Conjuring in the Capital” with Master Magician Phil Cheifetz

\$35/person (Ticket Required)

Cabinet ♦ 8:30 pm - 10:00 pm

Friday, November 21



All conference attendees are encouraged to attend the appropriate AMATYC Regional Meeting. The agenda for each meeting will include a review of issues for the Delegate Assembly, reports from states/affiliates in the region, a summary of the Executive Board meeting, other items of concern, and distribution of delegate passes.

Regional Meetings & Continental Breakfasts

Breakfast 7:45 am - 8:15 am (ticket required) ♦ Regional Meetings 8:15 am - 9:45 am

*Sponsored in part by Hawkes Learning Systems and Casio, Inc.,
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1. **NORTHEAST** **JANE TANNER, Vice President** **Jefferson East**
Connecticut • Maine • Massachusetts • New Hampshire • New York • Rhode Island
Vermont • New Brunswick • Newfoundland • Nova Scotia • Ontario
Prince Edward Island • Quebec
2. **MID-ATLANTIC** **RUTH COLLINS, Vice President** **Jefferson West**
Delaware • District of Columbia • Maryland • New Jersey • Pennsylvania • Virginia
West Virginia
3. **SOUTHEAST** **DONNA SAYE, Vice President** **Georgetown West & East**
Alabama • Florida • Georgia • Louisiana • Mississippi • North Carolina
South Carolina • Tennessee • Puerto Rico • Virgin Islands • other Caribbean Islands
4. **MIDWEST** **JIM TREFZGER, Vice President** **International Ballroom East**
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Daily Summary by Program Key* —Friday, November 21

Code Time	A	C	D	DI	G	GE	H	IS	MI	RB	SS	ST	TP	TT
10:30	S38	W10 W12	S39 S41 S43 W11 W13		S36 S37 S38 S40 W9	S40 W8 W10 W11 W12		S38 S39 S41 S43 W8 W9 W10 W11 W13	S37	S39	S41		W11 W12	S39 W8 W13
11:45	S45	S44	S47 S48	S51	S44 S46			S44 S47 S49 S50	S46		S48	S46		S49 S50
1:00	S57	S55 S63	S52		S54 S55 S56 S60 S61 S62	S56 S60		S52 S58 S59	S59 S61	S52 S57	S63	S53 S56		S53 S55 S58
2:15	S69 S72	S64 S72 W17	S73 S127		S64 W15	S66 W15	S64	S65 S68 S69 S71 S72 S127 W16	S67 W17	S71 S127		S68		S66 S67 S70 W17
3:30	S78 S80 S128		S77 S81		S81	S76 S128		S74 S77 S78 S81				S74	S80	S74 S77 S78

*The code in bold indicates the primary area of focus for each event.

PROGRAM KEY

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



As a courtesy to conference participants, attendees with cell phones and pagers are asked to turn them off while attending any presentation.

☞☞IMPORTANT: See Workshop Attendance Policy on page 17.☞☞

7:45 AM

Regional Meetings & Continental Breakfast

*Sponsored in part by Hawkes Learning Systems and Casio, Inc.,
AMATYC Silver Corporate Partners*

Continental Breakfast 7:45 am
Regional Meeting 8:15 am - 9:45 am

◆Ticket required for admission◆

Learn what is new in your region and discuss Delegate Assembly issues with your delegates. Everyone is encouraged to attend. See page 40 for details and locations.

9:45 AM



Visit the AMATYC exhibits and
talk to the vendors!
9:45 am - 10:30 am

Friday, November 21

10:30 AM

10:30 am - 11:20 am

S36 G

International Ballroom East

◆◆Featured Speaker◆◆

Why We Must Achieve the Dream

Presenter: George R. Boggs – American Association of Community Colleges, Washington, DC

Presenter: Donna Mills – Frederick CC, Frederick, MD

The speaker will address current and future national challenges and issues that affect community colleges and the nation with an emphasis on why the work being done to improve student access, learning success, STEM education, and accountability is so important.

10:30 am - 11:20 am

S37 G, MI

Georgetown West

Faculty Mathematics League Contest

Presenters: Steven Blasberg – West Valley College, Saratoga, CA

Susan R. Strickland – College of Southern Maryland, La Plata, MD

Presenter: David Price – Tarrant County College, Arlington, TX

Participate in the Fifth Annual Faculty Mathematics League contest! The FML is modeled after the AMATYC's Student Mathematics League contest. This twenty-question, multiple choice exam covering precalculus mathematics will test your problem-solving skills. Compete for individual prizes as well as the coveted Regional Championship Trophy! Bring your calculator.

10:30 am - 11:20 am

S38 A, IS, G

Georgetown East

Developing Cognitive Mathematics Assessments for Daily Classroom Use

Presenter: Maria Andersen – Muskegon CC, Muskegon, MI

Presenter: Brena Bellovich – Tulsa CC, Tulsa, OK

Has your campus assessment committee been beating the “daily assessment” drums? If a one-minute paper is just not cutting it for daily math assessments, then this presentation is for you. Learn to use diagnostic tools, cognitive monitoring, and metacognitive assessments to track your students' learning.

10:30 am - 11:20 am

S39 TT, D, IS, RB

Jefferson West

◆◆2007 TE Award Recipient◆◆

Hybrid and Online: Comparison of Designs, Experiences and Outcomes

Presenter: Louise Olshan – County College of Morris, Randolph, NJ

Presenter: Jim Matovina – College of Southern Nevada, Las Vegas, NV

The presentation will focus on the differences in designing hybrid and online remedial algebra classes, student and faculty experiences and comments, and techniques used in each format, including screen capture software and comparison of outcomes.

10:30 am - 11:20 am

S40 G, GE

Jefferson East

An Engineer and Algebraic Forms

Presenter: William G. Steenken – GE Aviation (retired), Cincinnati, OH

Presenter: Thomas F. Seremet – College of Southern Maryland, La Plata, MD

A retired mechanical engineer looks back on his career and at the common forms of algebraic equations he encountered with some surprising results. The presentation will be liberally sprinkled with examples and insight to what the equations mean in the physical world, culminating with some of the presenter's favorite examples.

Friday, November 21

10:30 am - 11:20 am S41 D, IS, SS Lincoln West

Third Time's a Charm: Changing Math Success for Developmental Students

Presenters: Joni Burnette Pirnot – Manatee CC, Bradenton, FL
 Julie Francavilla – Manatee CC, Bradenton, FL
 Jana M. Bryant – Daviess County HS, Owensboro, KY
 Paul D. Nolting – Manatee CC, Bradenton, FL

Presenter: Art Rude – Bismarck State College, Bismarck, ND

The presenters will share successful strategies and techniques they used in establishing a dynamic learning experience for their enhanced developmental mathematics courses created solely for student repeaters and students with learning disabilities. Attendees will be active and will receive handouts to implement in their own classrooms.

10:30 am - 11:20 am S42 Lincoln East

Standards in Action: From Student Blues and Blahs to Oohs! and Aahs!

Presenter: James J. Rutledge – St. Petersburg College, St. Petersburg, FL

Crossroads' standards were applied to a project-based Liberal Arts math course with emphases on active learning, analytical reasoning and use of web-based resources. Student outcomes have been highly successful in terms of improved attitudes toward math, improved analytical reasoning skills, increased confidence and ability, and reduced math anxiety.

10:30 am - 11:20 am S43 D, IS State

Learning Arithmetic Through Life

Presenter: Linda Laine – Honolulu CC, Honolulu, HI

Presenter: Thomas (Tom) Adamson – Phoenix College, Phoenix, AZ

Each participant will receive a set of ten project plans for students to do to learn and use arithmetic skills. A chart that lists specific skills (adding common fractions, etc.) will also be provided. These lessons can be used alone or with any arithmetic text.

10:30 am - Noon C5 Monroe East

Commercial Presentation—McGraw-Hill Higher Education

Improving Student Success with ALEKS Redesign

Presenters: Alina Coronel – Miami Dade College, Miami, FL
 Maria DeLucia – Middlesex County College, Edison, NJ
 Bryan Stewart – Tarrant County College, Arlington, TX

Join a panel discussion on how to improve student success rates through a variety of approaches involving an online diagnostic assessment tool. Members of the panel will focus on how they've successfully redesigned their courses using the ALEKS program to achieve accurate student placement and increased retention rates.

10:30 am - Noon C6 Military

Commercial Presentation—Pearson Education

MyMathLab Training for Novice Users

Presenters: Sandee House – Georgia Perimeter College, Atlanta, GA
 Diane Gray – Pearson Education, Hawthorne, CA

In this session, educators new to MyMathLab will learn how to create a course, homework assignments, tests and quizzes, manage the gradebook and track student progress, and become familiar with multimedia resources available to students.

Friday, November 21

10:30 am - Noon

C7

Hemisphere

Commercial Presentation—Texas Instruments

To CAS or NOT to CAS...

Presenter: Steve West – State University of New York-Geneseo, Geneseo, NY

This session will provide hands-on training on a TI-Nspire CAS. The major focus of this session will be on the pedagogical implications of using a CAS system to enhance the teaching and learning of algebra, precalculus and calculus.

10:30 am - 12:30 pm

W8

IS, TT, GE

Monroe West

Monumental Mathematics Activities

Presenter: Beverly A. Meyers – Jefferson College, Hillsboro, MO

Presenter: Leslie A. Smith – Columbus State CC, Columbus, OH

Participants will gather data through hands-on activities to produce graphs (on graphic calculators) and find regression equations (linear through exponential) that fit the data sets. National monuments will be used for applications of the functions derived through the activity. Activities are appropriate from Beginning through College Algebra.

10:30 am - 12:30 pm

W9

IS, G

Thoroughbred

A Preview of AMATYC's Traveling Workshops

Presenters: Pat Averbeck – Edmonds CC, Lynnwood, WA

Patrick DeFazio – Onondaga CC, Syracuse, NY

Presenter: Jane M. Weber – University of Alaska-Fairbanks, Fairbanks, AK

Preview four AMATYC Traveling Workshops and learn how to arrange for a workshop on your campus or at your affiliate meeting. Sample the content available then get tips from experienced faculty regarding how to make use of this resource.

10:30 am - 12:30 pm

W10

IS, C, GE

Cabinet

Dinosaurs! House Building! Hot Air Balloons!

Presenters: Laura Moore-Mueller – Green River CC, Auburn, WA

Robin Washam – Puget Sound Educational School, Auburn, WA

Deann Anguiano – Kentridge High School, Kent, WA

Russ Ballard – Kentlake High School, Kent, WA

Presenter: David Nezelek – Manatee CC, Bradenton, FL

Groups will learn fun applications ranging from elementary algebra to precalculus topics. The projects are “ready to go” complete with assessment rubrics. Key mathematical concepts include 2D and 3D measurement, logical reasoning, modeling and quadratics. These activities were developed collaboratively with high school and college math faculty.

10:30 am - 12:30 pm

W11

IS, D, GE, TP

Map

Learning-style Activities for Introductory Mathematics Courses

Presenter: Bruce Wahl – Northern Virginia CC-Alexandria, Alexandria, VA

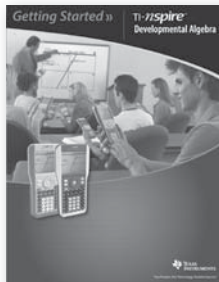
Presenter: Ann Loving – J. Sargeant Reynolds CC, Richmond, VA

Students taking introductory math courses like arithmetic, algebra, and liberal arts mathematics often learn best when the professor incorporates alternative activities into the lecture. In this workshop, participants will experience some games and projects that are easy to prepare and quick to use in class.

3 OUT OF 2 STUDENTS — HAVE — TROUBLE — WITH — RATIOS

For many students, the concept of ratios *simply doesn't add up.*

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Friday, November 21

10:30 am - 12:30 pm

W12 C, GE, TP

1919 Grill

Cultural Contexts for Two-Year College Mathematics

Presenter: Barbra Steinhurst • 2005 Project ACCESS Fellow – Susquehanna Valley Community Education Project, Sunbury, PA

Presenter: John W. Coburn – St. Louis CC-Florissant Valley, Ferguson, MO

Participants will hear about and experience several projects and activities that use cultural phenomena to explore mathematics. Material can be applied across the curriculum, but is especially suited for survey courses, liberal arts math, and math for teachers.

10:30 am - 12:30 pm

W13 TT, D, IS

Chevy Chase

Using Learning Objects to Improve Student Learning

Presenter: Wade Ellis, Jr. – West Valley College, Saratoga, CA

Presenter: Mary Beth Angeline – Pierpont C&TC of Fairmont State University, Fairmont, WV

With software-based learning objects, students act on mathematical objects, observe the consequences of those actions, and then reflect on the meaning of the consequences. Such learning objects encourage inquiry-based learning. The presenter will demonstrate several algebra learning objects and participants will create and discuss inquiry questions for these learning objects.

10:30 am - 4:45 pm

Exhibit Hall

Commercial Product Presentations by AMATYC Exhibitors

New to this year's conference, AMATYC exhibitors will conduct 30-minute presentations in the Exhibits Area on their products. The presentations' titles, descriptions, and speakers are listed below. Be sure to check which companies will be presenting and which new products will be demonstrated. Make plans to attend one or all.

- **10:30 am - 11:00 am P1 Hawkes Learning Systems**
Improving Student Performance with Mastery-based Software
Presenter: Abby McBride – Hawkes Learning Systems, Charleston, SC
Discover the benefits of using software in teaching and learning mathematics. Hawkes Learning Systems promotes grade improvement and motivates students to succeed. They learn more efficiently and effectively through tutorials, unlimited practice, mastery-based homework, and error-specific feedback.
- **11:15 am - 11:45 am P2 PTC (Mathcad)**
Mathcad for Education
Presenter: Anji Seberina – PTC (Mathcad), Needham, MA
A demonstration of the benefits that Mathcad provides for math and science education. Topics include: the use of Natural Math Notation for performing calculations, handling of units, incorporation of textual content, characteristics of numeric and symbolic math engines, and more!
- **Noon - 12:30 pm P3 McGraw-Hill**
How ALEKS Helped Improve our Student Success Rates!
Presenter: Maria DeLucia – Middlesex County College, Edison, NJ
Learn how ALEKS technology helps to improve student performance in the mathematics classroom. The presenter will discuss her experience using ALEKS technology that helps remediate students while building their math skills, plus her course outcomes.
- **2:00 pm - 2:30 pm P4 Cengage Learning**
Math Videos Your Students will Get Excited About
Presenter: Rena Petrello – Moorpark College, Moorpark, CA
Two pressing issues facing developmental math courses are inadequate video resources and a lack of suitable content for online instructors. Cengage Learning introduces an innovative new product that meets those needs with just the right balance of technology and humanity.

11:45 am - 12:35 pm S44 G, C, IS International Ballroom East

Mathematical Reasoning for ALL Students on Key Math Topics and Skills

Presenter: Henry S. Kepner, Jr. – University of Wisconsin-Milwaukee, Milwaukee, WI

Presenter: C. Altay Özgener – Manatee CC, Bradenton, FL

For students to have lasting use of mathematics, mathematics instruction must target students' reasoning in making mathematical decisions - both with concepts and with procedures. This reasoning is necessary for students to apply and adapt their mathematical results to the varied tasks they are expected to perform in their chosen occupations.

11:45 am - 12:35 pm S45 A Georgetown West

Reflective Assessment and the Program Review Process

Presenter: Laura Bracken – Lewis-Clark State College, Lewiston, ID

Presenter: Alison J. Schubert – Wake Technical CC, Raleigh, NC

Traditionally, faculty determine their own objectives and assessments. They use those assessments as they wish. However, accreditation teams want reflective assessment at the program level. Find out what our program review process told us and how we are using it to prepare for an accreditation visit in 2009.

11:45 am - 12:35 pm S46 MI, ST, G Georgetown East

Unexpected Occurrences of the Number e

Presenter: Harris Shultz – California State University-Fullerton, Fullerton, CA

Presenter: Roxy Peck – California Polytechnic State University, San Luis Obispo, CA

Students rarely have a solid grasp of the number e , other than perhaps knowing the phrase, "It is the base of the natural logarithm." This presentation will discuss how the number e arises naturally in some elementary probability discussions.

11:45 am - 12:35 pm S47 IS, D Jefferson West

Reviving Your Students Using CPR (Creative Presentations Regularly)

Presenter: Alan Tussy – Citrus CC, Glendora, CA

Presenter: Dennis C. Runde – Manatee CC, Bradenton, FL

Would you like to learn how to breathe more "life" into your classroom presentations? The speaker will share a variety of instructional techniques and visual aids that he has developed to get, and keep, the attention of developmental mathematics students.

11:45 am - 12:35 pm S48 D, SS Jefferson East

A Way to Help Students Read and Understand Their Math Textbooks

Presenters: Joanna K. Pruden – Pennsylvania College of Technology, Williamsport, PA

 Lauren Rhodes Gordon – Pennsylvania College of Technology, Williamsport, PA

 LeAnn Henry – Pennsylvania College of Technology, Williamsport, PA

 Diana L. Kuhns – Pennsylvania College of Technology, Williamsport, PA

Presenter: Barbara Johnson – Indiana University-Purdue University Indianapolis, Indianapolis, IN

Faculty from Pennsylvania College of Technology have designed Pre-Lecture Guided Reading sheets to help developmental students read and understand their math textbooks. The presenters will share their experiences implementing Pre-Lecture Guided Reading sheets in their classrooms and the effect these sheets have had on student preparation and participation.

Friday, November 21

11:45 am - 12:35 pm S49 TT, IS Lincoln West

An Investigation of McDonald's Golden Arches

Presenters: Jim Langley – Greenville Technical College, Greenville, SC
 William A. (Bill) Parker – Greenville Technical College, Greenville, SC
 Jerry R. Kissick – Portland CC-Rock Creek, Portland, OR

Presenter: Don Ransford – Edison College, Fort Myers, FL

A close approximation of the graph of the Golden Arches will be generated. Calculations related to area, length and volume will ensue. Participants will use supplied graphing calculators to follow along or may bring their own.

11:45 am - 12:35 pm S50 TT, IS Lincoln East

Online Course Tips & Techniques - Experiences from the Past Six Years

Presenter: Shawna Haider – Salt Lake CC, Salt Lake City, UT

Presenter: Mary Ann Hovis – Rhodes State College, Lima, OH

The presenter has developed and implemented many online math courses. Through research, experimentation and experience, several tips and techniques for improving online course success have been identified. These range from ideas for pre-screening students to techniques and tips for course design to assessment with student learning the ultimate goal.

11:45 am - 12:35 pm S51 DI State

Making Adjuncts Feel Like Part of the Department

Presenter: Sean D. Simpson – Westchester CC, Valhalla, NY

Presenter: Caroline Martinson – Jefferson Community and Technical College, Louisville, KY

A significant number of the math courses at many colleges are taught by adjuncts. The presenter will discuss ways to better involve adjuncts in the department. Outside forces, such as union concerns and scheduling, will also be discussed. Participants will be encouraged to share their suggestions.

===== 12:30 PM =====

12:30 pm - 2:00 pm C8 Monroe East

Commercial Presentation—John Wiley & Sons, Inc.

Maximizing Student Success in Mathematics with WileyPLUS

Presenters: Catherine Cutcher – Regent University, Virginia Beach, VA

 Brad Franklin – John Wiley & Sons, Inc., Hoboken, NJ

Catherine Cutcher, professor of Mathematics at Regent University and Wiley Faculty Network Mentor, will present and discuss the use of WileyPLUS in her online and campus-based math courses - discussing both her and her students' experience and learning outcomes.

12:30 pm - 2:00 pm C9 Military

Commercial Presentation—Pearson Education

MyMathLab Training for Experienced Users

Presenters: Sandee House – Georgia Perimeter College, Atlanta, GA

 Diane Gray – Pearson Education, Hawthorne, CA

In this session, educators who have been teaching with MyMathLab for at least one year, will learn how to use advanced MyMathLab features; managing multiple sections using coordinator and member courses, using the MathXL exercise builder to create custom exercises, customization of the learning environment, and utilizing communication tools.

Friday, November 21

12:30 pm - 2:00 pm

C10

Hemisphere

Commercial Presentation—Hawkes Learning Systems

Improving Student Performance with Mastery-based Software

Presenter: Jordan Enzor – Hawkes Learning Systems, Charleston, SC

Discover the benefits of using interactive software in teaching and learning mathematics. Hawkes Learning Systems promotes grade improvement and motivates students by engaging them in the learning process. Students learn more efficiently and effectively through tutorials, unlimited practice, mastery-based homework, and error-specific feedback. HLS is the solution for student success!

===== 1:00 PM =====

1:00 pm - 1:50 pm

♦Committee Meeting♦

Map

Developmental Mathematics

Chair: Jack W. Rotman – Lansing CC, Lansing, MI

This meeting will focus on creating a work plan for the coming year: subcommittee activity, committee website content, possible position paper(s) to develop, and other activities. Come help us identify the highest priorities.

1:00 pm - 1:50 pm

S52

RB, D, IS

International Ballroom East

♦♦Featured Speaker♦♦

The National Mathematics Advisory Panel

Presenter: Larry Faulkner – National Mathematics Advisory Panel, Houston, TX

Presenter: Luz Shin – Los Angeles Valley College, Valley Glen, CA

The National Mathematics Advisory Panel was commissioned in 2006 to advise the President and Secretary of Education on the best use of scientifically based research to advance the teaching and learning of mathematics. The presentation will review the Final Report's findings and recommendations, released in early 2008.

1:00 pm - 1:50 pm

S53

ST, TT

Georgetown West

We're Still GAISEing

Presenters: Judy H. Williams – Tidewater CC, Virginia Beach, VA

Christy A. Hewett – Tidewater CC, Virginia Beach, VA

John R.F. Gallo – Tidewater CC, Virginia Beach, VA

Presenter: Paula Wilhite – Northeast Texas CC, Mt. Pleasant, TX

The presenters have studied the *Guidelines for Assessment and Instruction in Statistical Education* (GAISE) in several settings during the past three years. In this session they will involve participants in activities they have created or adapted for their own students based on these recommendations from the American Statistical Association.

1:00 pm - 1:50 pm

S54

G

Georgetown East

Classroom Lessons Learned from ICME-11

Presenters: Laura Watkins – Glendale CC, Glendale, AZ

Steven Blasberg – West Valley College, Saratoga, CA

Presenter: Suzanne Williams – Central Piedmont CC, Charlotte, NC

The presenters, who were NSF travel grant awardees, will discuss interesting sessions attended and classroom lessons learned as participants in the International Congress of Mathematics Education held in Monterrey, Mexico, in July 2008.

Friday, November 21

1:00 pm - 1:50 pm S55 G, TT, C Jefferson West

Why Mathematics Is Much More than Computation

Presenter: Gary K. Rockswold – Minnesota State University-Mankato, Mankato, MN

Presenter: Mary E. DeHart – Sussex County CC, Newton, NJ

Computers are amazing and the future looks bright with quantum computation on the horizon. Our students often believe that mathematics is routine computation, and therefore, isn't relevant. But are there limits on computation? This entertaining multimedia presentation dispels the myths, and explains why mathematics will never go out of style.

1:00 pm - 1:50 pm S56 ST, GE, G Jefferson East

March Math Madness: The Mathematics of the NCAA Basketball Tournament

Presenter: Mark D. Colgan – Taylor University, Upland, IN

Presenter: Brenda Bloomgarden – Chesapeake College, Wye Mills, MD

Shoot baskets with ping-pong balls and discover the best strategy: should you shoot all one-pointers, two-pointers, or three-pointers? Explore the 64-team NCAA basketball bracket by solving probability and percent problems, and learn about the RPI. Students will have fun applying mathematics to the exciting world of March Madness.

1:00 pm - 1:50 pm S57 A, RB Lincoln West

Development of a Web-based Placement Exam

Presenters: Sandra J. (Sandy) Carlson – Pennsylvania College of Technology, Williamsport, PA

Edwin G. (Ed) Owens – Pennsylvania College of Technology, Williamsport, PA

Presenter: Alison Ahlgren – University of Illinois-Urbana-Champaign, Urbana, IL

This session will examine the process used to create an in-house placement exam. Question content and its alignment with course content, student outcomes, and the *Beyond Crossroads* standards will be discussed. Issues related to web-based delivery of the test will also be presented.

1:00 pm - 1:50 pm S58 TT, IS Lincoln East

♦♦2007 TE Award Recipient♦♦

Teaching Mathematics Online: Sharing Session

Presenters: Mary Beth Orrange – Erie CC-South, Orchard Park, NY

Patricia R. Lanz – Erie CC-South, Orchard Park, NY

Presenter: John Peterson – Knoxville, TN

This interactive session discusses the good, the bad, and the ugly of teaching math online. Everyone from novice to veteran online instructors will leave with tips about how to improve their teaching and pitfalls to avoid! Come and share your experiences.

1:00 pm - 1:50 pm S59 IS, MI Monroe West

A New Twist on Trigonometric Graphs

Presenter: Mark D. Turner – Cuesta College, San Luis Obispo, CA

Presenter: Randy Taylor – Las Positas College, Livermore, CA

Do your students have trouble graphing trigonometric functions? Come see a new approach that simplifies the graphing process. By using consistent definitions of the basic cycles and working with frames, students are given a unified structure in which all six trigonometric functions can be graphed with less difficulty and confusion.

Friday, November 21

1:00 pm - 1:50 pm S60 GE, G Thoroughbred

The Probabilities of Basic Sports Wagering

Presenters: Ronald W. Yates – College of Southern Nevada, Las Vegas, NV
 Patrick L. Villa – College of Southern Nevada, Las Vegas, NV

Presenter: Richard Zucker – Irvine Valley College, Irvine, CA

A precursor to the 2009 AMATYC Conference that will be held in Las Vegas, this presentation will examine some of the ways in which sporting events can be wagered upon, as well as the associated odds, probabilities, and expected values.

1:00 pm - 1:50 pm S61 G, MI Cabinet

Examining a Well-known Problem

Presenter: Joseph Cicero – Coastal Carolina University, Conway, SC

Presenter: Christopher D. Oehrlein – Oklahoma City CC, Oklahoma City, OK

Using elementary symmetric polynomials, determinants and elements of calculus, a well-known problem of power symmetric polynomials will be generalized and solved.

1:00 pm - 1:50 pm S62 G 1919 Grill

AMATYC 201 - Professional Opportunities Through AMATYC

Presenters: Ruth Collins – Walden University, New London, PA

 Jane D. Tanner – Onondaga CC, Syracuse, NY

Presenter: Linda Taylor – Northern Virginia CC, Woodbridge, VA

AMATYC 201 is the second of a two-course sequence for members interested in learning about AMATYC, the annual conference and getting more involved in the organization. AMATYC 201 discusses the opportunities available for professional development and the work of AMATYC committees and delegates.

1:00 pm - 1:50 pm S63 SS, C State

Mentoring Women Students in STEM Disciplines at the Two-Year College

Presenters: Arminda M. Wey – Brookdale CC, Lincroft, NJ

 Ellen J. Musen – Brookdale CC, Lincroft, NJ

Presenter: Sherri Messersmith – College of DuPage, Glen Ellyn, IL

Positive role models and collegiality are key factors in the success of female students pursuing degrees in STEM disciplines. A dedicated group of female faculty and professionals initiated the Math Mentoring Program and found the demand for mentors more than double initial expectations. Learn how to start your own program.

===== 2:15 PM =====

2:15 pm - 3:05 pm S64 G, H, C International Ballroom East

The Mathematics of Beauty and the Beauty of Mathematics

Presenter: Monica M. Neagoy – Monica Neagoy Mathematics Consulting Services, Arlington, VA

Presenter: Janet E. Teeguarden – Ivy Tech CC of Indiana, Indianapolis, IN

Whether subjective or objective, ephemeral or eternal, arousing the senses or charming the intellect, beauty has forever challenged philosophers and artists alike. This multimedia presentation invites you to ponder the meanings of beauty, examine the hidden mathematics behind things beautiful, and enjoy aspects of mathematics that delight, excite and ignite!

Friday, November 21

2:15 pm - 3:05 pm S65 IS Georgetown West

Teaching the Millennial Generation -- How *Beyond Crossroads* Can Help!

Presenter: Martha T. Goshaw – Seminole CC, Sanford, FL

Presenter: Shawna Haider – Salt Lake CC, Salt Lake City, UT

Most of today's college students belong to the Millennial Generation, yet most faculty do not! This session will use recommendations from *Beyond Crossroads* to demonstrate instructional strategies to bridge the generation gap in the teaching of college algebra, statistics, and calculus. *(This session will be repeated on Sunday.)*

2:15 pm - 3:05 pm S66 GE, TT Jefferson West

Liberal Arts Mathematics - A Project-based Approach

Presenter: Mark A. Roland – Dutchess CC, Poughkeepsie, NY

Presenter: Christina Dwyer – Manatee CC, Bradenton, FL

Learn about a project-driven course that uses technology as a natural learning tool to help students become more comfortable with the mathematics encountered in life. Attendees will receive sample projects. The presenter will also discuss his experiences offering this course online.

2:15 pm - 3:05 pm S67 MI, TT Monroe West

Interactive Tools and Visualizations for Precalculus and Calculus

Presenters: David R. Hill – Temple University, Philadelphia, PA

Lila F. Roberts – Clayton State University, Morrow, GA

Presenter: Kendall Jacobs – Casper College, Casper, WY

We will showcase easy to use interactive visualization tools for teaching essential topics such as domain/range, interpreting average velocity, continuity, sketching functions/derivatives, volumes of solids, related rates, and max-min problems. Routines are in Excel and freely available from the web. Flash quizzes on topics like limits will also be included.

2:15 pm - 3:05 pm S68 ST, IS Jefferson East

Center, Spread, and Shape in Inference: Claims, Caveats, and Insights

Presenter: Nancy Pfenning – University of Pittsburgh, Pittsburgh, PA

Presenter: Kathryn Kozak – Coconino CC, Flagstaff, AZ

Inference results claimed in the form of confidence intervals or hypothesis tests are only true if certain background conditions hold. The impact of violations such as biased samples, dependent samples, and small samples from non-normal populations can be explored with hands-on activities, helping students connect the claims with the conditions.

2:15 pm - 3:05 pm S69 A, IS Lincoln West

Assessing Critical Thinking

Presenters: Mary D. Pearce – Wake Technical CC, Raleigh, NC

Sharon F. Welker – Wake Technical CC, Raleigh, NC

Presenter: Carol Lerch – Daniel Webster College, Nashua, NH

Critical thinking is an essential component of all mathematics courses. Formal documentation of the critical thinking process is necessary for an instructor to plan, implement and assess learner-centered activities. Examples of learner-centered activities and assessment tools using Bloom's Taxonomy will be shared.

2:15 pm - 3:05 pm S70 TT Lincoln East

Online Mathematics Classes that Work

Presenters: Calandra M. Davis – Georgia Perimeter College-Online Campus, Dunwoody, GA

Andrea M. Hendricks – Georgia Perimeter College-Online Campus, Clarkston, GA

Presenter: Natile Woodrow – TSTC West Texas, Sweetwater, TX

The presenters will share the design of their instructor-personalized, student-centered online classes and discuss some of the challenges they continue to face as online instructors.

Friday, November 21

2:15 pm - 3:05 pm S71 IS, RB State

Sharing Session for Users of Brain-Friendly Teaching Strategies

Presenter: Diana L. Hestwood – Minneapolis C/T College (retired), Minneapolis, MN

Presenter: John Savage – Montana State University-College of Technology, Bozeman, MT

If you've heard one of Diana's previous presentations on basic brain information and are starting to use brain-friendly strategies in your classes, this is for you. Bring your ideas to share with other faculty with similar interests. Includes brain research updates on attention span, multi-tasking, sleep, and nutrition.

2:15 pm - 3:05 pm S127 D, IS, RB Georgetown East

Cool at School! Improve Attendance, Retention and Grades in Dev Math

Presenters: Julie Miller – Daytona Beach CC, Daytona Beach, FL

 Molly O'Neill – Daytona Beach CC, Daytona Beach, FL

Presenter: Robert N. Baker – New Mexico State University-Grants, Grants, NM

Join the presenters as they outline an effective new course model used at Daytona Beach CC for developmental mathematics. The model emphasizes student participation through daily activities, group work, lab, and minimal lecture. The results are in!

2:15 pm - 4:15 pm S72 IS, C, A Thoroughbred

Mathematics Across the CC Curriculum (MAC³) Sharing Session

Presenters: Deann Leoni – Edmonds CC, Lynnwood, WA

 Rebecca T. Hartzler – Seattle Central CC, Seattle, WA

 Christie Gilliland – Green River CC, Auburn, WA

 Jim Roznowski – Delta College, University Center, MI

Presenter: Robert L. Carson – Hagerstown CC, Hagerstown, MD

This session features past-participants of the MAC³ Summer and Winter Institutes presenting updates on the projects they developed through the NSF-funded MAC³ project. The presenters will share what went well, what did not go as planned, and the best practices for creating and implementing interdisciplinary curricula.

2:15 pm - 4:15 pm S73 D Map

Developmental Mathematics Network & Sharing Session

Presenters: Judy Giffin – Rhodes State College, Lima, OH

 Pat Rhodes – Treasure Valley CC, Ontario, OR

 Jack W. Rotman – Lansing CC, Lansing, MI

Presenter: Kenneth A. Takvorian – Mount Wachusett CC, Gardner, MA

This session provides an opportunity for those involved with developmental mathematics to talk with others with similar interests and problems, so that information and ideas can be shared, and so that informal networks can be established. Every attendee can leave with answers to questions and help others as well.

2:15 pm - 4:15 pm W15 GE, G Cabinet

Everybody Counts - But Is Everyone Counted? The Math of Voting

Presenter: Don St. Jean – George Brown College-St. James Campus, Toronto, Ontario, Canada

Presenter: Jason M. Edington – Mendocino College, Ukiah, CA

Many do not understand how a newly-elected leader can have received a smaller proportion of the popular vote than a competitor. Fewer still know how the winners of the Oscars or the Heisman trophy are chosen. This workshop covers the workings, strengths and shortcomings of different voting systems.

Friday, November 21

2:15 pm - 4:15 pm W16 IS 1919 Grill

Practicing What We Preach: Effective Cooperative Learning Practices

Presenters: Karen Wells – Monroe CC, Rochester, NY
Annette L. Leopard – Monroe CC, Rochester, NY
Presenter: Lynn Marecek – Santa Ana College, Santa Ana, CA

The presenters will make the case for using cooperative learning techniques. A number of classroom-tested techniques will be demonstrated. Sample activities for a variety of mathematics courses will be explored. Participants will receive a packet of classroom activities.

2:15 pm - 4:15 pm W17 TT, MI, C Chevy Chase

Biocalculus Computer Laboratory Projects

Presenter: Timothy D. Comar – Benedictine University, Lisle, IL
Presenter: Robin Hensel – West Virginia University, Morgantown, WV

This is a hands-on introduction to biologically oriented computer laboratory projects. These projects help students develop mathematical and computational skills needed to pursue quantitative biological problems. These projects are appropriate in calculus, biocalculus, or precalculus courses.

===== 2:30 PM =====

2:30 pm - 4:00 pm C11 Monroe East

Commercial Presentation—Cengage Learning

Enhanced WebAssign: Easy to Use. Easy to Assign. Easy to Manage.

Presenters: Joe Rogove – Cengage Learning, Belmont, CA
John Risley – WebAssign, Raleigh, NC

Join Cengage Learning for a presentation of Enhanced WebAssign, the most widely used homework management system in higher education. This proven homework system is enhanced to include videos, links to textbook sections, and problem-specific tutorials. EWA is more than a homework system; it is a complete learning system for students!

2:30 pm - 4:00 pm C12 Military

Commercial Presentation—Pearson Education

Creating Custom Exercises in MyMathLab and MathXL

Presenters: Sandee House – Georgia Perimeter College, Atlanta, GA
Diane Gray – Pearson Education, Hawthorne, CA

In this session, educators who have been teaching with MyMathLab or MathXL for at least one year will learn how to use the exercise builder to create algorithmically generated skills exercises, open-ended exercises that assess students' conceptual understanding, and exercises which require students to show their work.

2:30 pm - 4:00 pm C13 Hemisphere

Commercial Presentation—Hawkes Learning Systems

Improving Student Performance with Mastery-based Software

Presenter: Merideth Kolaski – Hawkes Learning Systems, Charleston, SC

Discover the benefits of using interactive software in teaching and learning mathematics. Hawkes Learning Systems promotes grade improvement and motivates students by engaging them in the learning process. Students learn more efficiently and effectively through tutorials, unlimited practice, mastery-based homework, and error-specific feedback. HLS is the solution for student success!

3:30 pm - 4:20 pm S74 ST, TT, IS International Ballroom East

Enhancing Your Students' Conceptual Understanding of Statistics

Presenter: Michael J. Sullivan, III – Joliet Junior College, Joliet, IL

Presenter: Jessica Craig – Georgia Perimeter College, Dunwoody, GA

Do your students know how to get statistical results, but fail to present a reasonable interpretation of the results? Do you find yourself lecturing to your students without a lot of interaction? This presentation focuses on techniques that utilize technology and student interaction to enhance students' conceptual understanding of statistics.

3:30 pm - 4:20 pm S75 SS, IS Georgetown West

Corrections Policy

Presenters: Lina Williams • 2006 Project ACCESS Fellow – Tallahassee CC, Tallahassee, FL
 R. Michael Darrell • 2006 Project ACCESS Fellow – Columbia State CC, Columbia, TN
 Rigoberto Florez • 2006 Project ACCESS Fellow – University of South Carolina-Sumter, Sumter, SC

Want to connect with your students and make them feel more comfortable about doing and speaking the language of mathematics? This presentation will show you how to increase students' confidence and engagement by implementing a corrections policy in class. This method works for any level mathematics class.

3:30 pm - 4:20 pm S76 GE Georgetown East

♦♦2007 TE Award Recipient♦♦

The Beauty of Mathematics: A New Course

Presenter: Joseph F. Conrad – Solano CC, Fairfield, CA

Presenter: Blanche S. Presley – Macon State College, Macon, GA

The speaker will discuss a new course he has developed that focuses on the beauty of mathematics. This course is designed to meet California's enhanced AA/AS degree requirement of Intermediate Algebra and is intended for students who will flourish in a less algorithmic environment than a typical algebra class.

3:30 pm - 4:20 pm S77 TT, D, IS Monroe West

You Too Can YouTube!

Presenter: Denise H. Robichaud – Quinsigamond CC, Worcester, MA

Presenter: Enis Alpakin – Kansas City Kansas CC, Kansas City, KS

Do you want to make online videos for your students but worry it will be too complicated or expensive? Come see a cheap, easy solution. With just a webcam and a headset you can put your teaching videos on YouTube for free, and you don't have to be a techie!

3:30 pm - 4:20 pm S78 IS, TT, A Jefferson West

Favorite Best Practices for College Algebra

Presenters: Shawna Mahan – Pikes Peak CC, Colorado Springs, CO

Sharon Butler – Pikes Peak CC, Colorado Springs, CO

Presenter: Laura Moore-Mueller – Green River CC, Auburn, WA

Take home a portfolio of ready-to-use, favorite best practices for college algebra including favorite final exam questions, a revealing written exercise for the first week of class, individual response system quizzes, and guided, concept-connecting exercises.

Friday, November 21

3:30 pm - 4:20 pm S79 DI, TP, G Lincoln West

Creating or Updating Your Faculty Development Program

Presenter: Carol C. Hannahs – Sullivan University, Lexington Campus, Lexington, KY

Using knowledge and learning management principles in your mathematics department can promote team-building and improve classroom instruction. In this session you will discover ways to create and/or update your faculty development program. Implementation of a knowledge repository will also be discussed as one tool for sharing knowledge with others.

3:30 pm - 4:20 pm S80 TP, A Lincoln East

Assessment Ideas for Mathematics Courses for Preservice Teachers

Presenters: Wendy O'Hanlon • 2005 Project ACCESS Fellow – Illinois Central College, Peoria, IL
Mary J. Hohulin – Illinois Central College, Peoria, IL

Presenter: Edward A. Gallo – Sinclair CC, Dayton, OH

The presenters will share new and old assessment techniques that they are implementing in mathematics courses for preservice teachers. The assessments include ideas for assessing general college goals, as well as specific course goals.

3:30 pm - 4:20 pm S81 D, G, IS State

Algebra Through Blocks - A Geometric Approach

Presenter: Patricia C. Rome – Delgado CC, New Orleans, LA

Presenter: Pat Roux – Delgado CC, New Orleans, LA

Through the use of ordinary math blocks, concepts such as multiplying and factoring polynomials, long division, and basic radicals will be demonstrated. These concepts will be related to area so students can “see” what is happening.

3:30 pm - 4:20 pm S128 A, GE Jefferson East

Assessment of General Education Math Courses in New York State

Presenter: Maryann E. Justinger – Erie CC-South, Orchard Park, NY

Presenter: Harris Shultz – California State University-Fullerton, Fullerton, CA

The presenter will discuss the five SUNY general education mathematics learning outcomes and their rubrics, provide some history regarding their development, and mention some things to be considered when writing questions for the assessment. Copies of the five learning outcomes and their rubrics will be distributed.

===== 4:00 PM =====

The MAA welcomes AMATYC to Washington, DC. Join your colleagues on Friday, November 21, between 4:00 and 7:00 pm for a reception and tour of the MAA Headquarters. The MAA is located at 1529 18th Street NW – a short walk from the conference hotel.

4:30 pm - 5:30 pm

♦Committee Meeting♦

Georgetown East

Division/Department Issues

Chair: Anne Dudley – Glendale CC, Glendale, AZ

Please join the Division/Department Issues Committee to discuss items of concern to departments. Discussion items will include measuring your department's alignment with the standards, improving adjunct participation, setting goals for this committee, and the creation/rearrangement of subcommittees as needed.

4:30 pm - 5:30 pm

♦Committee Meeting♦

Georgetown West

Innovative Pedagogy Strategies

Chair: Mike E. Martin – Johnson County CC, Overland Park, KS

This is the first meeting of the new Innovative Pedagogy Strategies Committee (IPS). Our charge is to continue those of the former Distance Learning and Technology in Mathematics Education committees. In addition, the domain expands to include all innovative practices in the generally-defined mathematics classroom. Open to all.

4:30 pm - 5:30 pm

♦Committee Meeting♦

State

Mathematics for AAS Programs

Chair: Jesse Williford – Wake Technical CC, Raleigh, NC

Following a brief review of the first meeting, the committee will discuss ways to locate the Best of Breed (BOB) technical math programs. What criteria should be used to measure success? What can be learned from the experiences of the BOB? A subcommittee will be established to do this search.

4:30 pm - 5:30 pm

♦Committee Meeting♦

Cabinet

Mathematics Intensive/College Mathematics

Chair: Klement Teixeira – Borough of Manhattan CC, New York, NY

During this meeting we hope to organize subcommittees in the following areas: Precalculus, Calculus, Linear Algebra, and Differential Equations. We will elect a chair for each subcommittee and discuss goals and objectives of these subcommittees.

4:30 pm - 5:30 pm

♦Committee Meeting♦

Map

Placement and Assessment

Chair: Connie Buller – Metropolitan CC, Omaha, NE

The Placement and Assessment Committee (PAC) will discuss goals, objectives, and a possible themed session for 2009. The Classroom Assessment, Course and Program Assessment, and Placement subcommittees will hold separate meetings to discuss issues in their areas, looking together for solutions.

4:30 pm - 5:30 pm

♦Committee Meeting♦

1919 Grill

Teacher Preparation

Chair: Darlene F. Winnington – Delaware Technical & CC, Newark, DE

The Teacher Prep Committee will continue business on the agenda of transfer of credit, suggested qualifications of faculty teaching the teacher prep courses, and recommendations of course content.

Daily Summary by Program Key*—Saturday, November 22

Code Time	A	C	D	DI	G	GE	H	IS	MI	RB	SS	ST	TP	TT
10:45	S85 W21	S83	S86 S87	S85	S88 S89	S84 W18 W20	S82	S83 S84 S86 S87 S89 W19 W20 W21	S82 S83	S87	S87	S87	S82 W20	S83 S84 W18
12:00	S92	S95	S92 S93 S95 S96	S92	S90	S95	S93	S93 S94 S96 S97	S90 S91 S97	S92	S96	S96	S96	S91 S94
1:15	S99 S102	S100 W23 W24	S103		S101 S104 S106 W22	S101 S104 W23	S105	S99 S102 S103 S104 W22 W23 W24	S105	S102	S103 W22	S98	S100 S105 W22 W24	S99 S100
2:30	S108 S111	S112	S107 S111 S113	S108 S113	S110		S110	S107 S112 S113 S114	S109 S110	S111	S107		S112	

*The code in bold indicates the primary area of focus for each event.

Saturday, November 22

PROGRAM KEY

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



As a courtesy to conference participants, attendees with cell phones and pagers are asked to turn them off while attending any presentation.

☞☞IMPORTANT: See Workshop Attendance Policy on page 17.☞☞

=====**7:45 AM**=====

Saturday Awards Breakfast Session

International Ballroom Center
Breakfast Served: 7:45 am - 8:00 am (***ticket required***)
Program: 8:30 am - 10:00 am

Presentation of Awards

Richelle (Rikki) Blair, AMATYC President

Keynote Speaker: David Wright

Physics is Phun

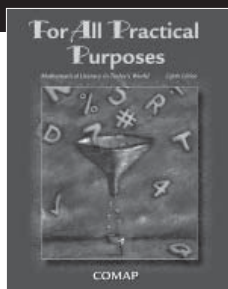
=====**10:00 AM**=====



Meet your friends in the AMATYC exhibits and talk to the vendors!

10:00 am - 10:45 am

FREEMAN *Solutions for Success*



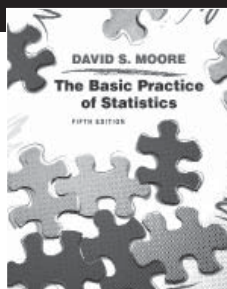
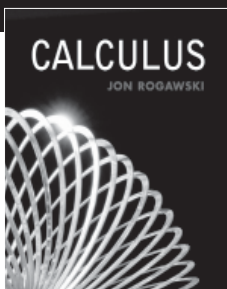
New Edition!
For All Practical Purposes:
Mathematical Literacy in Today's World,
 Eighth Edition
 Consortium for Mathematics and Its
 Applications (COMAP) Inc.

New!
Calculus
 Jon Rogawski

Preliminary Edition!
Reconceptualizing Mathematics
 Judy Sowder • Larry Sowder
 Susan Nickerson

Linear Algebra: From the Beginning
 Eric Carlen • Maria C. Carvalho

**Euclidean and Non-Euclidean
 Geometries, Fourth Edition**
 Marvin Jay Greenberg



New Edition!
**The Basic Practice
 of Statistics,**
 Fifth Edition
 David S. Moore

New!
Discovering Statistics
 Daniel Larose

**Introduction to the
 Practice of Statistics,**
 Sixth Edition
 David S. Moore
 George P. McCabe
 Bruce A. Craig

**The Practice of
 Statistics in the
 Life Sciences**
 Brigitte Baldi
 David S. Moore



New Edition!
**Statistics: Concepts
 and Controversies,**
 Seventh Edition
 David S. Moore
 William Notz

Preliminary Edition!
**Introductory Statistics:
 A Problem-Solving
 Approach**
 Stephen Kokoska

**The Practice of
 Business Statistics,**
 Second Edition
 David S. Moore
 George P. McCabe
 William M. Duckworth III
 Layth Alwan

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10:45 am - 11:35 am

S82

MI, H, TP

International Ballroom East

◆◆Featured Speaker◆◆

Mathematical Patterns in Nature

Presenter: John A. Adam – Old Dominion University, Norfolk, VA

Presenter: Mary Kay Abbey – Montgomery College, Rockville, MD

From rainbows, ice crystal halos and shadows to spider webs, cloud formations, and the markings on butterfly wings, the natural world is replete with patterns that can be described, and often explained, in mathematical terms. This presentation will introduce aspects of nature's beauty as revealed by mathematics.

10:45 am - 11:35 am

S83

MI, TT, C, IS

Georgetown West

Calculus for Biology & Medicine

Presenter: Mike E. Martin – Johnson County CC, Overland Park, KS

Presenter: Frank C. Wilson – Chandler-Gilbert CC, Mesa, AZ

This session, with support from an NSF grant, outlines the emerged differences between a standard calculus course and those for life science majors. The differences include content (e.g., limit development through sequences), delivery (e.g., use of Internet databases and multimedia), and engagement (e.g., expert-team projects and facilitating technologies).

10:45 am - 11:35 am

S84

TT, GE, IS

Georgetown East

Is There a Place for Spreadsheets in Algebra or General Ed Courses?

Presenters: James W. Hall – Parkland College (retired), Champaign, IL

Brian Mercer – Parkland College, Champaign, IL

Presenter: Claude S. Moore – Cape Fear CC, Wilmington, NC

Spreadsheet options will be presented to the audience for their opinions and feedback. The objective of using spreadsheets is to assist in using the rule of four and implementing the recommendations in *Beyond Crossroads*. Many students will use their mathematics in the workplace by using spreadsheets.

10:45 am - 11:35 am

S85

A, DI

Lincoln West

A Multiple Measures Approach to Mathematics Placement

Presenters: Joanna K. Pruden – Pennsylvania College of Technology, Williamsport, PA

Diana L. Kuhns – Pennsylvania College of Technology, Williamsport, PA

Edwin G. (Ed) Owens – Pennsylvania College of Technology, Williamsport, PA

Presenter: Mary Beth Orrange – Erie CC-South, Orchard Park, NY

The mathematics department at Pennsylvania College of Technology implemented a multi-dimensional approach to the initial placement of their students. The presenters will discuss this faculty-led process that uses multiple measures to assign placement levels and helps ensure that students have the opportunity to achieve success in their math courses.

10:45 am - 11:35 am

S86

D, IS

Lincoln East

Providing Opportunities for ALL Students in Basic Mathematics

Presenters: Gary M. Simundza – Wentworth Institute of Technology, Boston, MA

Nancy Crisler – Washington University-St. Louis, St. Louis, MO

Presenter: Ken Hurley – Central Arizona College, Coolidge, AZ

Students bring a wide range of abilities and backgrounds to basic mathematics courses, often requiring a variety of teaching strategies. This session examines techniques for differentiating instruction for our most needy students, including active learners, those requiring special intervention, and more capable students who can benefit from enrichment experiences.

Saturday, November 22

10:45 am - 11:35 am S87 SS, IS, D, RB Monroe West

Teaching Learning Strategies in Math Class/Better Learners Guaranteed

Presenter: Jason M. Edington ♦ 2006 Project ACCESS Fellow – Mendocino College, Ukiah, CA
Presenter: Susan J. Kennedy – University of Cincinnati, Cincinnati, OH

Taken from a Project ACCESS Cohort 3 research project, the ideas given here will help instructors teach their students how to become independent learners and be more successful in their math class. Ideas include test taking strategies and successful group work strategies, along with organization skills.

10:45 am - 11:35 am S88 G Monroe East

The AMATYC Teaching Excellence Award--Opportunity and Process

Presenters: Louise Olshan – County College of Morris, Randolph, NJ
Scott L. Adamson – Chandler-Gilbert CC, Chandler, AZ
Presenter: Oiyin Pauline Chow – Harrisburg Area CC, Harrisburg, PA

Former Teaching Excellence Award Committee members will offer suggestions on preparing a thoughtful, complete, nomination packet. They will review the history of the award, requirements for nomination, and criteria for nominee selection as well as discuss their experience as reviewers of nominations. Nomination materials will be supplied.

10:45 am - 11:35 am S89 IS, G Thoroughbred

Reading Strategies and Brain Research Enhance Traditional Algebra

Presenter: Thomas F. Seremet – College of Southern Maryland, La Plata, MD
Presenter: Beverly Broomell – Suffolk County CC, Selden, NY

Too many elementary and intermediate algebra students quickly become disinterested, passive procrastinators and, eventually, no-shows. Capture their interest, increase motivation, and promote accountability right from the start using best practices in reading and brain research. The materials and techniques used that dramatically improved retention and success will be shared.

10:45 am - 12:15 pm C14 Military

Commercial Presentation—Pearson Education

MyMathTest Strategies for Implementation

Presenters: Sandee House – Georgia Perimeter College, Atlanta, GA
Diane Gray – Pearson Education, Hawthorne, CA

In this session, educators will learn how to use MyMathTest to create short refresher programs to help students quickly come up to speed with their mathematical skills, or design secondary placement programs to assess students' mathematical skills and accurately place them in the appropriate math course.

10:45 am - 12:15 pm C15 Hemisphere

Commercial Presentation—Casio America

Using the ClassPad 330 to View Mathematics from Different Angles

Presenters: Ben Klein – Davidson College, Davidson, NC
Diane Whitfield – Casio MRD Center and Portland CC, Portland, OR

The audience will participate in hands-on activities to explore the basic features of the ClassPad 330 handheld with examples from basic Algebra to Calculus and also an activity to introduce the Statistics wizard. This will be an introductory workshop. No experience needed!

10:45 am - 12:45 pm ♦Committee Meeting♦ Chevy Chase

2009 Conference Planning

Chairs: Keven Dockter – Anoka Ramsey CC, Coon Rapids, MN
Margie Hobbs – The University of Mississippi, University, MS

The Las Vegas Conference Planning Committee will discuss details and procedures for that conference. Future conference committee members are also invited to attend.

Saturday, November 22

10:45 am - 12:45 pm

W18 GE, TT

Cabinet

♦♦2007 TE Award Recipient♦♦

Toward Quantitative Literacy: Interesting Problems in Finance

Presenter: James A. (Jim) Ham – Delta College, University, MI

Presenter: Richard Aufmann – Palomar College, San Marcos, CA

Research has shown that Americans are not very savvy when it comes to money matters. Ideally, financial literacy should be integrated across the curriculum. This workshop will introduce problems in finance that all students should experience. Participants will use the finance functions on calculators to assist in the computation.

10:45 am - 12:45 pm

W19 ST, IS

Map

Engaging Statistics Students Through Hands-on Experiences

Presenter: Roxy Peck – California Polytechnic State University, San Luis Obispo, CA

Presenter: Maryann E. Justinger – Erie CC-South, Orchard Park, NY

This workshop will focus on using hands-on activities, projects and other creative assignments to foster student engagement in the learning process. Suggestions for how these types of learning experiences can be integrated into the introductory statistics course and for how they can be used for assessment will be provided.

10:45 am - 12:45 pm

W20 GE, IS, TP

1919 Grill

Projects Across the Curriculum

Presenters: Christina Dwyer – Manatee CC, Bradenton, FL

Nancy R. Johnson – Manatee CC, Bradenton, FL

Joni Burnette Pirnot – Manatee CC, Bradenton, FL

Julie Francavilla – Manatee CC, Bradenton, FL

Presenter: Bruce Wahl – Northern Virginia CC, Alexandria, VA

Projects and class activities from developmental through college-level (both precalculus and liberal arts) mathematics courses will be demonstrated. The types of projects will vary from skill building to information literacy assignments. Participants will work in small groups and will receive worksheets and handouts to take home.

10:45 am - 12:45 pm

W21 IS, A

State

The Log of Logs Portfolio for Mathematics Students

Presenter: Robert N. Baker – New Mexico State University-Grants, Grants, NM

Presenter: Karen Wells – Monroe CC, Rochester, NY

This portfolio design meets the special needs of mathematics students. As an assessment device for a course grade, it provides an “artifact” reflecting both process and product, while modeling mathematical skills essential in business, the trades, and college. Examine student work, and then the design, in a discussion setting.

NOON

Noon - 12:50 pm

S90 G, MI

International Ballroom East

Using Mathematics to Create Symmetry Patterns

Presenter: Joseph A. Gallian – University of Minnesota-Duluth, Duluth, MN

Presenter: Ned W. Schillow – Lehigh Carbon CC, Schnecksville, PA

Video animations will illustrate how mathematics can be used to create computer generated symmetry patterns. Polynomials, exponential functions, logarithms and modular arithmetic are used to transform basic images into symmetry patterns. These methods were used to create the image for the 2003 Mathematics Awareness Month poster.

Saturday, November 22

Noon - 12:50 pm S91 MI, TT Georgetown West

Monumental Projects for Differential Equations

Presenters: Patricia Dueck – Scottsdale CC, Scottsdale, AZ

 David Dudley – Scottsdale CC, Scottsdale, AZ

Presenter: Kaat Higham – Bergen CC, Paramus, NJ

Projects designed to improve conceptual understanding by differential equations students will be presented. The development of these projects and the results of their use will be shared. Participants who wish to play along should bring their own calculator/laptop capable of displaying slope fields and symbolic matrices.

Noon - 12:50 pm S92 D, A, DI, RB Georgetown East

Increasing Student Success: A Journey of Course Redesign

Presenter: Andrea M. Grimaldo – Quinsigamond CC, Worcester, MA

Presenter: William G. Weppner – Southwest Tennessee CC, Memphis, TN

Does your institution need to redesign a developmental mathematics program to increase student success and provide important assessment data? Quinsigamond CC has increased student engagement, attitude, and success in mathematics with standardization, faculty development, student assessment, and utilization of technology.

Noon - 12:50 pm S93 H, D, IS Lincoln West

Join the Global Community: The Chinese Abacus & Number Sense

Presenter: Cheryl Ooten – Santa Ana College, Santa Ana, CA

Presenter: Connie Buller – Metropolitan CC, Omaha, NE

Be introduced to fascinating Chinese mathematical symbols and systems. Through history of mathematics and abacus development, learn how and why the Chinese used the abacus. Practice basic operations on a Chinese abacus to discover its advantages and use for developing student number sense including signed numbers and mental math.

Noon - 12:50 pm S94 TT, IS Lincoln East

Using Tablet PC Technology: A Dynamic Alternative to the Chalkboard

Presenters: Kristina K. Schmid – Columbus State CC, Columbus, OH

 Katherine R. Struve – Columbus State CC, Columbus, OH

Presenter: Gowribalan Ananda-Vamadeva – University of Cincinnati, Cincinnati, OH

Come see how the tablet PC can be used as a dynamic tool and an alternative to the chalkboard. With digital resources at your fingertips, you'll be able to enhance your classroom presentation and revolutionize the way you think about teaching and learning.

Noon - 12:50 pm S95 GE, C, D Monroe West

Applied Intermediate Algebra: An Option for Liberal Arts Students

Presenters: Deann Leoni – Edmonds CC, Lynnwood, WA

 Pat Averbek – Edmonds CC, Lynnwood, WA

Presenter: Julie Miller – Daytona Beach CC, Daytona Beach, FL

Applied Intermediate Algebra is a new course that satisfies the Intermediate Algebra requirement for the Associate of Arts Degree in Washington. The presenters will describe the course content and the collaborative effort between the college and high school district to develop and teach the course at both levels.

Noon - 12:50 pm S96 IS, SS, D, TP Monroe East

What's Reading Got to Do with Mathematics?

Presenter: Amber H. Rust • 2005 Project ACCESS Fellow – University of Maryland,
College Park, MD

Presenter: Helen (Honey) Kirk – Palo Alto College, San Antonio, TX

Many students enter math courses with a limited ability to read and comprehend math textbooks. Students' poor reading abilities may get in the way of their learning the math. Learn about reading strategies that can be incorporated into your teaching and about the math register (math vocabulary vs. everyday words).

Saturday, November 22

1:15 pm - 2:05 pm S99 TT, A, IS Georgetown West

Click Your Way to More Engaged Classes

Presenter: Kenneth A. Takvorian – Mount Wachusett CC, Gardner, MA

Presenter: Jerry R. Kissick – Portland CC-Rock Creek, Portland, OR

The presenter's college has been experimenting with "clickers" (Personal Response System) in math instruction. Students who were not usually engaged suddenly began participating. Attendees will experience several active learning scenarios thru the use of clickers.

1:15 pm - 2:05 pm S100 TT, C, TP Georgetown East

Distance Ed & Equal Opportunities: Learning Math in Rural Alaska

Presenters: Sandra J. Wildfeuer • 2007 Project ACCESS Fellow – University of Alaska-Fairbanks, Fairbanks, AK

 Shirley Kruger – University of Alaska-Fairbanks, Fairbanks, AK

Presenter: Susan King – Montgomery College, Rockville, MD

What is it like to teach and learn mathematics in remote areas of Alaska using audio conference and Internet? Hear from the educator and a rural Alaska Native mathematics student. History of education in Alaska and current opportunities in higher education for rural and Alaska Native students will be discussed.

1:15 pm - 2:05 pm S101 GE, G Lincoln West

What's Mathematics Got to Do with Reality Competition Shows?

Presenter: Jerry J. Chen – Suffolk County CC, Selden, NY

Presenter: Ray Collings – Georgia Perimeter College, Clarkston, GA

In a Math Survey class project, students present their choice of reality competition shows with their understanding of topics such as set theory, logic, descriptive statistics, and probability theory. The description of project requirements and grading criteria as well as selected student projects will be presented.

1:15 pm - 2:05 pm S102 IS, A, RB Lincoln East

The Math Is Always Greener: Environmental Issues Engage Students

Presenter: Cynthia Y. Young – University of Central Florida, Orlando, FL

Presenter: Davidson Pierre – Manatee CC, Bradenton, FL

This session presents techniques to encourage students to read the book, improve retention of skills and concepts, and feel empowered to use mathematics for the good of the Earth. When implemented in a College Algebra course, pass rates increased 20% and mastery rates increased 44% over three semesters.

1:15 pm - 2:05 pm S103 D, IS, SS Monroe West

Math Boot Camp: An Algebra Community with Successive Short Courses

Presenter: Jay Lehmann – College of San Mateo, San Mateo, CA

Presenter: Vicki L. Gearhart – San Antonio College, San Antonio, TX

Teaching elementary algebra followed during the same semester by intermediate algebra improves students' success rates and mastery of concepts, similar to the impact of language-immersion programs. A curve-fitting approach, which naturally embraces the rule of four, technology, and critical thinking, further enhances this "math boot camp" algebra community.

1:15 pm - 2:05 pm S104 G, IS Monroe East

♦♦2007 TE Award Recipient♦♦

Math & Jeopardy: Or I Have an Answer, Do You Know the Question?

Presenter: Anne Dudley – Glendale CC, Glendale, AZ

Presenter: Carol Whyzmuzis – St. John's University, Jamaica Queens, NY

Come play Jeopardy and reflect on 20 years of change in mathematics education. Along the way, you will dust the cobwebs off your memories and laugh about the way things were (and are). Be careful, you might even learn something you can use in the classroom on Monday!

Saturday, November 22

1:15 pm - 2:05 pm S105 H, TP, MI Thoroughbred

Trigonometric Curiosities

Presenter: John W. Coburn – St. Louis CC-Florissant Valley, Ferguson, MO

Presenter: Joanne V. Peeples – El Paso CC, El Paso, TX

This session will be a fun-filled exploration of trigonometry, its history and its connections. Teachers of trig will find this session particularly endearing, although all who attend will be amused and enchanted at the wealth of connections that exist between trig, geometry, algebra, geodesy, and many other sciences.

1:15 pm - 2:05 pm S106 G Cabinet

AMATYC 299 - Leadership & Getting Involved

Presenters: Robert A. Farinelli – College of Southern Maryland, La Plata, MD

 Stefan Baratto – Clackamas CC, Oregon City, OR

 Jean Woody – Tulsa CC, Tulsa, OK

 Donna Saye – Georgia Southern University, Statesboro, GA

Presenter: Patricia C. Rome – Delgado CC, New Orleans, LA

AMATYC 299 is the last of a three-course sequence for members interested in learning about AMATYC, the annual conference, and getting more involved in the organization. Participants will learn about their own leadership style and AMATYC leaders will share information about the organization and its leadership opportunities.

1:15 pm - 3:15 pm W22 IS, G, SS, TP Map

Minute Motivators

Presenter: Leslie A. Smith – Columbus State CC, Columbus, OH

Presenter: Susan Jensen – Pima CC, Tucson, AZ

Communication in any math class starts first with building rapport. Using a plethora of quick motivational activities, participants will experience engaging discussions, thought-provoking self-awareness, and a renewed enthusiasm for teaching. Unleash a passion for learning in your students with these simple but effective minute motivators. Handouts will be provided.

1:15 pm - 3:15 pm W23 GE, C, IS 1919 Grill

Cutting the Cheese, Fantasy Divorce and Romulans in the Neutral Zone

Presenter: Christopher D. Oehrlein – Oklahoma City CC, Oklahoma City, OK

Presenter: Barbra Steinhurst – Susquehanna Valley Community Education Project, Sunbury, PA

Come and experience how the presenter incorporates active demonstrations and the use of manipulatives along with characters from science fiction and fantasy stories in a unit on Fair Division in his Liberal Arts Mathematics course.

1:15 pm - 3:15 pm W24 IS, C, TP State

Making It Real: Contextual Teaching and Learning in the Classroom

Presenter: Ken Hurley – Central Arizona College, Coolidge, AZ

Presenter: Elizabeth M. Flow-Delwiche – CC of Baltimore County-Catonsville, Baltimore, MD

Bring math to life! Be more hands-on. Initiate self-directed learning. Promote a cooperative learning environment. Reduce student anxiety. Enhance transfer of knowledge. Accomplish it all through one pedagogy: Contextual Teaching and Learning (CTL). Experience CTL and discover its background, purpose and appeal. Make it real!

2:30 pm - 3:20 pm

♦Committee Meeting♦

Chevy Chase

Innovative Pedagogy Strategies

Chair: Mike E. Martin – Johnson County CC, Overland Park, KS

This is the second meeting of this new committee. After an overview of the first meeting, major items to be discussed include establishing goals of the committee, considering recent activities of related committees, and plans for themed sessions or other activities.

2:30 pm - 3:20 pm

S107 D, SS, IS

International Ballroom East

Succeed in Mathematics! A Model for Incorporating Math Study Skills

Presenter: Alan L. Bass – San Diego Mesa College, San Diego, CA

Presenter: Margaret Ehrlich – Georgia Perimeter College, Dunwoody, GA

This session is designed to help instructors and/or departments who want to incorporate math study skills into their developmental program. A format for an in-class workshop that includes information for students on everything from math anxiety to reading textbooks to test-taking will be presented. Handouts will be provided.

2:30 pm - 3:20 pm

S108 A, DI

Georgetown West

Creating Your Own Database to Generate Tests

Presenters: Susan J. Kennedy – University of Cincinnati-CAS-Clifton, Cincinnati, OH

Paul W. Jones II – University of Cincinnati, Cincinnati, OH

Presenter: Ann E. Commito – Frederick CC, Frederick, MD

There has to be a better option for making departmental tests besides spending hours writing new ones each semester or trying to find questions in a publisher's database that match what you want to test. Come and see what we created to overcome these obstacles.

2:30 pm - 3:20 pm

S109 MI

Georgetown East

Motivating and Using e in Precalculus

Presenter: Sheldon Axler – San Francisco State University, San Francisco, CA

Presenter: Steven Blasberg – West Valley College, Saratoga, CA

Rather than introducing e via slopes, limits, or continuously compounded interest, e can be motivated at the precalculus level using only intuitive ideas of area. This clean approach leads to genuine uses of e understandable to precalculus students. With this approach, the natural logarithm really becomes natural!

2:30 pm - 3:20 pm

S110 H, G, MI

Lincoln West

Euler at 301

Presenter: George DeRise – Thomas Nelson CC, Hampton, VA

Presenter: Nirmal Devi – Embry Riddle Aeronautical University, Daytona Beach, FL

This session presents material from the works of Euler that can be used to enhance lessons in Calculus and Liberal Arts Math classes. These include the polyhedral formula, the Konigsberg Bridge Problem and an easy Calculus 1 proof of $\exp(i\pi) = -1$. Interesting stories from Euler's life will be included.

Saturday, November 22

2:30 pm - 3:20 pm S111 D, RB, A Lincoln East

Fast Track - Improving Placement/Retention in Developmental Math

Presenters: William W. Coe – Montgomery College, Rockville, MD
 Suzanne Williams – Central Piedmont College, Charlotte, NC
 Debra M. Moses – University of Alaska-Tanana Valley Campus, Fairbanks, AK
 Jane M. Weber – University of Alaska-Fairbanks, Fairbanks, AK

Presider: Patty George – Cerritos College, Norwalk, CA

Fast Tracks are brief (15 - 20 hours) intensive review courses being used to improve placement and retention in developmental math classes. Results of the program at Montgomery College, over the past eight years, will be presented. The experiences of two schools replicating the program will also be shared.

2:30 pm - 3:20 pm S112 TP, C, IS Monroe West

Experiences with Math Across the Curriculum for Elementary Education

Presenters: Kathy Rogotzke – North Iowa Area CC, Mason City, IA
 Craig Zoellner – North Iowa Area CC, Mason City, IA
 Kacy Larson – North Iowa Area CC, Mason City, IA
 Nancy Fallis – North Iowa Area CC, Mason City, IA

Presider: Michael Schachter – Coastal Carolina CC, Jacksonville, NC

The presenters attended a MAC³ institute and developed an Elementary Education Learning Community consisting of the courses: Math for Elementary Teachers, Inquiry into Life Science, Evaluation and Measurement, and Exceptional Students. They will share their project, the implementation of a capstone course, and their experiences with a learning community.

2:30 pm - 3:20 pm S113 DI, IS, D Monroe East

Adjunct Sharing Time

Presenters: Judith (Judy) A. King – New Hampshire Technical Institute, Concord, NH
 Judy Giffin – Rhodes State College, Lima, OH

Presider: Thomas (T. J.) Johnson – Blue Ridge CC, Weyers Cave, VA

Join a round-table discussion of items of interest to adjuncts and to those interested in adjuncts. Previous topics have included teaching at multiple colleges, teaching upper division courses, non-contractual benefits, adjunct involvement in the department, and more. Share your concerns and your successes.

2:30 pm - 3:20 pm S114 IS Thoroughbred

I Must Have Done Something Interesting Over the Last 35 Years!

Presenter: Ned W. Schillow – Lehigh Carbon CC, Schnecksville, PA

Presider: Robert Cappetta – College of DuPage, Glen Ellyn, IL

All levels of mathematics can be enriched with thought-provoking questions, productive applications, and intriguing investigations that infuse real life into the subject. Participants will learn about more than a dozen teaching ideas that work well and lead students into legitimate opportunities involving meaningful, enjoyable activities.

Saturday, November 22

===== 4:30 PM =====

Delegate Assembly

Jefferson West & East

4:30 pm - 6:30 pm

(Delegates are asked to be seated by 4:15 pm)

- ❖ All delegates are expected to attend.
- ❖ Meeting agendas and information packets were mailed to delegates in October.
- ❖ Delegates receive their voting passes during the regional meetings on Friday morning. See your regional vice president if you did not receive these materials.
- ❖ Proxies will not be allowed to represent delegates at the Delegate Assembly.
- ❖ Delegates sit by region in designated sections of the Assembly. Seating for non-delegates attending this meeting will be provided in the back of the room.

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"Clickable Calculus: Syntax-Free Maple in the College Math Curriculum."

On Thursday November 20th from 12:30-2:00 in the Hemisphere Room, join Dr. Robert Lopez as he presents "Clickable Calculus: Syntax-Free Maple in the College Math Curriculum."

Dr. Lopez is an Emeritus Professor of Mathematics at the Rose-Hulman Institute of Technology and Maple Fellow. For over a decade, Dr. Lopez has also been a visionary figure in the introduction of math technology into undergraduate education and has received numerous awards for outstanding scholarship and teaching.

**Visit Maplesoft at booth #104 and ask for your free
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Daily Summary by Program Key* --Sunday, November 23

Code Time	A	C	D	DI	G	GE	H	IS	MI	RB	SS	ST	TP	TT
8:15	S115				S118	S118	S118 S119	S116 S117 S119 S120	S119			S115 S116	S116	S116 S120
9:25	S121	S125		S123	S125 S126	S121 S122	S125	S123 S124			S126	S122	S121	S123 S124

*The code in bold indicates the primary area of focus for each event.

PROGRAM KEY

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



As a courtesy to conference participants, attendees with cell phones and pagers are asked to turn them off while attending any presentation.

=====**8:15 AM**=====

8:15 am - 9:05 am

S115 ST, A

Georgetown West

Ideas for Group Projects Related to Probability and Statistics

Presenter: Stephen Kcenich – Montgomery College, Takoma Park, MD

Presenter: Joanna K. Pruden – Pennsylvania College of Technology, Williamsport, PA

Effective instruction in mathematics demands interesting active learning assessments and activities. Nothing interests students more than money and competition. This session presents two monetary and competition related ideas for group projects covering: discrete probability distributions, mean, variance, the binomial distribution, the normal distribution, probability rules, and Excel.

8:15 am - 9:05 am

S116 TP, ST, TT, IS

Georgetown East

In Search of a “Normal” Classroom

Presenters: Blanche S. Presley – Macon State College, Macon, GA

Don K. Brown – Macon State College, Macon, GA

Presenter: Marie H. Hipple – University of Cincinnati, Cincinnati, OH

The normal curve is a part of statistics that we encounter everyday. Involving statistics students and early-childhood preservice teachers in the search for the “normal” has helped make statistics real for them.

8:15 am - 9:05 am

S117 IS

Lincoln West

Teaching the Millennial Generation -- How *Beyond Crossroads* Can Help! (*encore presentation*)

Presenter: Martha T. Goshaw – Seminole CC, Sanford, FL

Presenter: Christy A. Hewett – Tidewater CC, Virginia Beach, VA

Most of today’s college students belong to the Millennial Generation, yet most faculty do not! This session will use recommendations from *Beyond Crossroads* to demonstrate instructional strategies to bridge the generation gap in the teaching of college algebra, statistics, and calculus.

Sunday, November 23

8:15 am - 9:05 am S118 H, G, GE Lincoln East

Mysteries and Histories of Pi

Presenter: Janet E. Teeguarden – Ivy Tech CC of Indiana, Indianapolis, IN

Presenter: Lalitha Subramanian – Potomac State College/West Virginia University, Keyser, WV

Participants will RISK knowledge of pi in a fun game as they learn fascinating information about the only mathematical topic that has continued to captivate mathematicians for over 4000 years, from ancient times to the present. Mathematical RISK, played here with pi facts, can be adapted to any classroom topic.

8:15 am - 9:05 am S119 MI, IS, H Monroe West

Three Fractal Pop-up Cards

Presenter: Virginia Swenson – Des Moines Area CC, West Des Moines, IA

Presenter: Bob Malena – CC of Allegheny County, West Mifflin, PA

Three different fractal pop-up cards will be made. Precalculus topics that go with the cards will be investigated—recursion, iteration, converging series, Towers of Hanoi, the Sierpinski triangle, spirals, and more.

8:15 am - 9:05 am S120 TT, IS Monroe East

What? Teach an Online Class? ... Me?

Presenters: John Robert Bakken • 2007 Project ACCESS Fellow – Wake Technical CC, Raleigh, NC

Nancy J. Rivers – Wake Technical CC, Raleigh, NC

Presenter: Mary D. Pearce – Wake Technical CC, Raleigh, NC

Participate in an open discussion of the joys and common pitfalls encountered by first-time online instructors. Suggestions will be made on errors to avoid and proactive course elements, such as course previewing, introductory quizzes, and discussion board use that can aid in teaching online.

===== 9:25 AM =====

9:25 am - 10:15 am S121 A, TP, GE Georgetown West

Writing, Reflection, and Portfolios - An Alternative Assessment

Presenter: Elizabeth M. Flow-Delwiche – CC of Baltimore County-Catonsville, Baltimore, MD

Presenter: Lauren Rhodes Gordon – Pennsylvania College of Technology, Williamsport, PA

Traditional methods of assessment are not tailored to the needs of learners. Using writing and reflection, students are able to enhance and extend the knowledge gained through traditional lecture. Portfolios allow the learning environment to be student-centered, thus providing each student with different modalities to demonstrate their knowledge.

9:25 am - 10:15 am S122 ST, GE Georgetown East

The Washington Senators: A Monumental Team (on Occasion)

Presenter: Stephen (Steve) A. Krevisky – Middlesex CC, Middletown, CT

Presenter: Karen Walters – Northern Virginia CC, Annandale, VA

Walter Johnson, Joe Cronin, Heinie Manush, Harmon Killebrew, Firpo Marberry, Roy Sievers and other luminaries graced the nation's capital. Using mathematical and statistical analysis, this presentation examines both the great and the near great! Intended for teachers of Algebra, Statistics, and Quantitative Literacy.

Sunday, November 23

9:25 am - 10:15 am S123 IS, DI, TT Lincoln West

Providing Faculty Development that Promotes Best Teaching Practices

Presenter: James E. (Jay) Martin – Wake Technical CC, Raleigh, NC

Presenter: Sean D. Simpson – Westchester CC, Valhalla, NY

To provide professional development for new faculty, Wake Technical faculty produced multi-media PowerPoints that include classroom videos, student and faculty interviews, and Camtasia videos. These PowerPoints are entitled "Teaching with Technology," "Teaching in Context," "Cooperative Learning" and "Interactive Learning." CDs will be distributed to those willing to provide feedback.

9:25 am - 10:15 am S124 TT, IS Lincoln East

Online Precalculus: What It Takes to be Successful!

Presenter: Behnaz Rouhani – Georgia Perimeter College, Dunwoody, GA

Presenter: Andy D. Jones – Prince George's CC, Largo, MD

Are you looking for ways to create an online Precalculus course that engages students in interaction while they learn and apply the course material? This interactive session presents innovative strategies to help participants create meaningful learning environments that focus on active learning and student participation.

9:25 am - 10:15 am S125 G, C, H Monroe West

A Geometric Inspection of Pennsylvania Dutch Hex Signs

Presenter: Evan Grant Evans, Jr. ♦ 2007 Project ACCESS Fellow – Frederick CC, Frederick, MD

Presenter: Barbara Tozzi – Brookdale CC, Lincroft, NJ

This presentation discusses connections between mathematics and art, more specifically, the mathematics involved in the construction of "Pennsylvania Dutch Hex Signs," and determines the symmetry groups of such constructions. These circular discs, with intricate geometric designs, include Rosettes and Star Polygons.

9:25 am - 10:15 am S126 SS, G Monroe East

Mathematics Learning Center: A Supportive Service for Students

Presenter: Sandra Bowen Franz – University of Cincinnati-CAS, Cincinnati, OH

Presenter: Bernadette Dantley – Prince George's CC, Largo, MD

A valuable and supportive learning center for students enrolled in mathematics and physics courses will be described. Discussion will include programs offered, physical setup, staffing, student usage, and the role of the director.

===== 10:30 AM =====

Closing Session

Lincoln East

10:30 am - 11:15 am

Richelle (Rikki) Blair, AMATYC President

- * Conference wrap-up
- * Report on Delegate Assembly actions
- * Opportunities to get more involved in AMATYC
- * Preview of next year's conference in Las Vegas
- * Adjournment

HIGH EXPECTATIONS



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FUTURE CONFERENCES

2009	Las Vegas	November 12-15
2010	Boston	November 11-14
2011	Austin	November 10-13
2012	Jacksonville	November 8-11
2013	Anaheim	October 31-November 3

Call for Presenters & Presiders

AMATYC Annual Conference

Las Vegas 2009

Proposals are now being accepted to participate as a presenter in the 2009 AMATYC Conference in Las Vegas. Please submit your proposal online by accessing the AMATYC webpage at www.amatyc.org. You may also volunteer to be a presider using this same online process. The speaker proposal submission deadline is February 1, 2009. Avoid the rush and possible submission delay caused by volume near the deadline by submitting your proposal now. Late or incomplete proposals will not be considered.

Two presentation formats are available: 50-minute sessions and two-hour workshops. Presentations may involve single or multiple presenters and must not focus on, promote, or sell a commercially available product. Sessions may range from lecture or panel discussion format to active attendee participation. The two-hour format is reserved for workshops. These must include active attendee participation, an in-depth treatment of a topic, and substantial handouts. A computer lab, possibly offsite, may be available for a limited number of two-hour workshops.

Proposals are reviewed and rated by the Program Committee. Any topic appropriate for mathematics educators in the first two years of college will be considered. The conference theme will be "High Expectations." Presentations showcasing projects, practices, or other activities that exemplify the five Implementation Standards of *Beyond Crossroads* are especially encouraged as are proposals from two-year college faculty. For more detail on specific areas of interest, see the proposal submission information link on AMATYC's webpage.

Please be as flexible as possible regarding the days you are willing to present and limit your equipment requests to only that which is absolutely necessary. AMATYC does not provide computers, computer projectors, or Internet for sessions.

Each proposal successfully submitted is acknowledged by an email receipt. If you do not receive an email receipt promptly after submission, please contact the AMATYC Office immediately. Letters of invitation to present at the conference are issued in April.

When proposals have more than one presenter, the first person listed becomes the official AMATYC contact and will receive all correspondence regarding the proposal. This person must agree to keep the copresenter(s) informed, including notifying them that they are required to register and pay the conference registration fee. Presenters are expected to register at the discount or regular conference rate that applies based their AMATYC membership status. AMATYC does not pay honoraria or expenses.

For more information, please contact:

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Saturday 10:45 am – 12:15 pm

MyMathTest Strategies for Implementation
Saturday 1:00 pm – 2:30 pm

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1:30 pm	Poster Session	Concourse
3:00 pm	Opening Session Keynote Speaker: Freeman Hrabowski	International Ballroom Center
4:45 pm	Grand Opening of Exhibits	Exhibit Hall
7:00 pm	Forum: Combining the Constitution and By-laws	Georgetown West
8:30 pm	AMATYC Foundation Presents "Conjuring in the Capital"	Cabinet

TIME	ACTIVITY	LOCATION
	Saturday, November 22nd	
7:45 am	Awards Breakfast General Session Breakfast Served: 7:45 am - 8:00 am Program: 8:30 am-10:00 am Keynote Speaker: David Wright	International Ball-room Center
10:00 am	Visit with the Exhibitors	Exhibit Hall
4:30 pm	Delegate Assembly	Jefferson West & East
	Sunday, November 23rd	
10:30 am	Closing Session	Lincoln East

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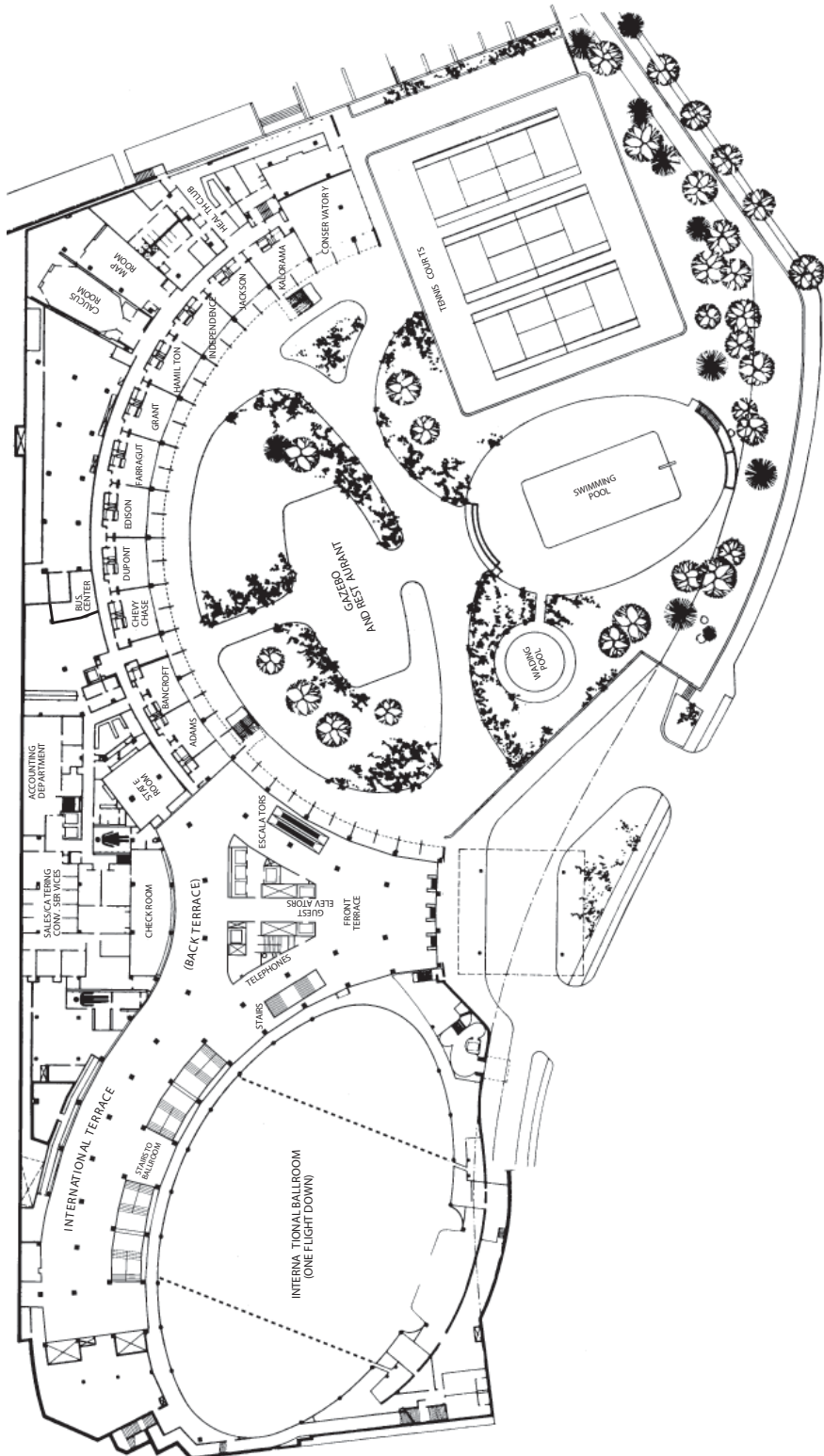


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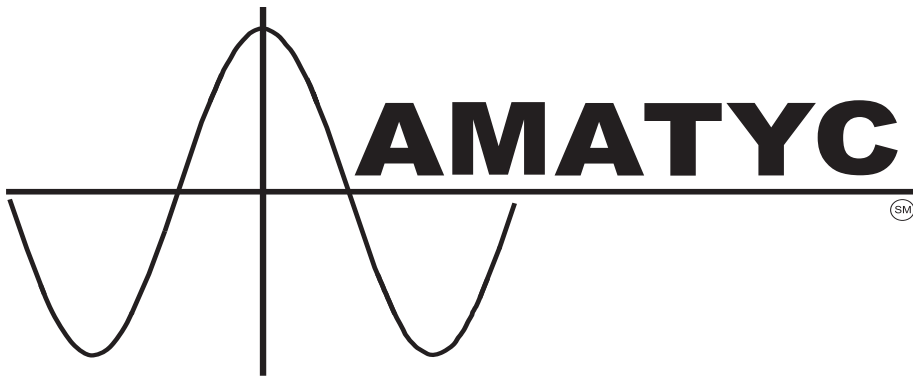
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Vision Statement

Opening Doors Through Mathematics

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

Mission Statement

The American Mathematical Association of Two-Year Colleges (AMATYC) mission is to promote and increase awareness of the role of two-year colleges in mathematics education, and to:

- ◆ Ensure the preparation of scientifically and technologically literate citizens who are capable of making educated decisions, who have skills needed by business and industry, and who will continue to educate themselves;
- ◆ Lead the development and implementation of curricular, pedagogical, and assessment standards for two-year college mathematics education;
- ◆ Assist in the preparation and continuing professional development of a competent and diverse mathematics faculty skilled in a variety of teaching and learning techniques;
- ◆ Serve as a network for communication, policy determination, and action among faculty, affiliates, and other professional organizations; and
- ◆ Communicate two-year college mathematics perspectives in public, business, and professional sectors.

Adopted April 18, 2004