

# **MOMATYC**

## ***10th Annual***



**Spring Conference**  
**March 29-March 31, 2007**  
**Poplar Bluff, Missouri**



# *Welcome!*

Welcome to the 10<sup>th</sup> Annual Spring Conference of MOMATYC. We are happy that you are joining us at Three Rivers Community College and at the Holiday Inn Poplar Bluff to spend a few days reaffirming our faith in the discipline of mathematics.

As always our goals are:

- *To provide two-year college math instructors with a means of identifying and solving problems of mutual concern.*
- *To cooperatively work with the other professional associations and institutions concerned with mathematics at all levels in order to provide the best possible curriculum in the state of Missouri.*
- *To promote improved teaching and understanding of mathematics.*

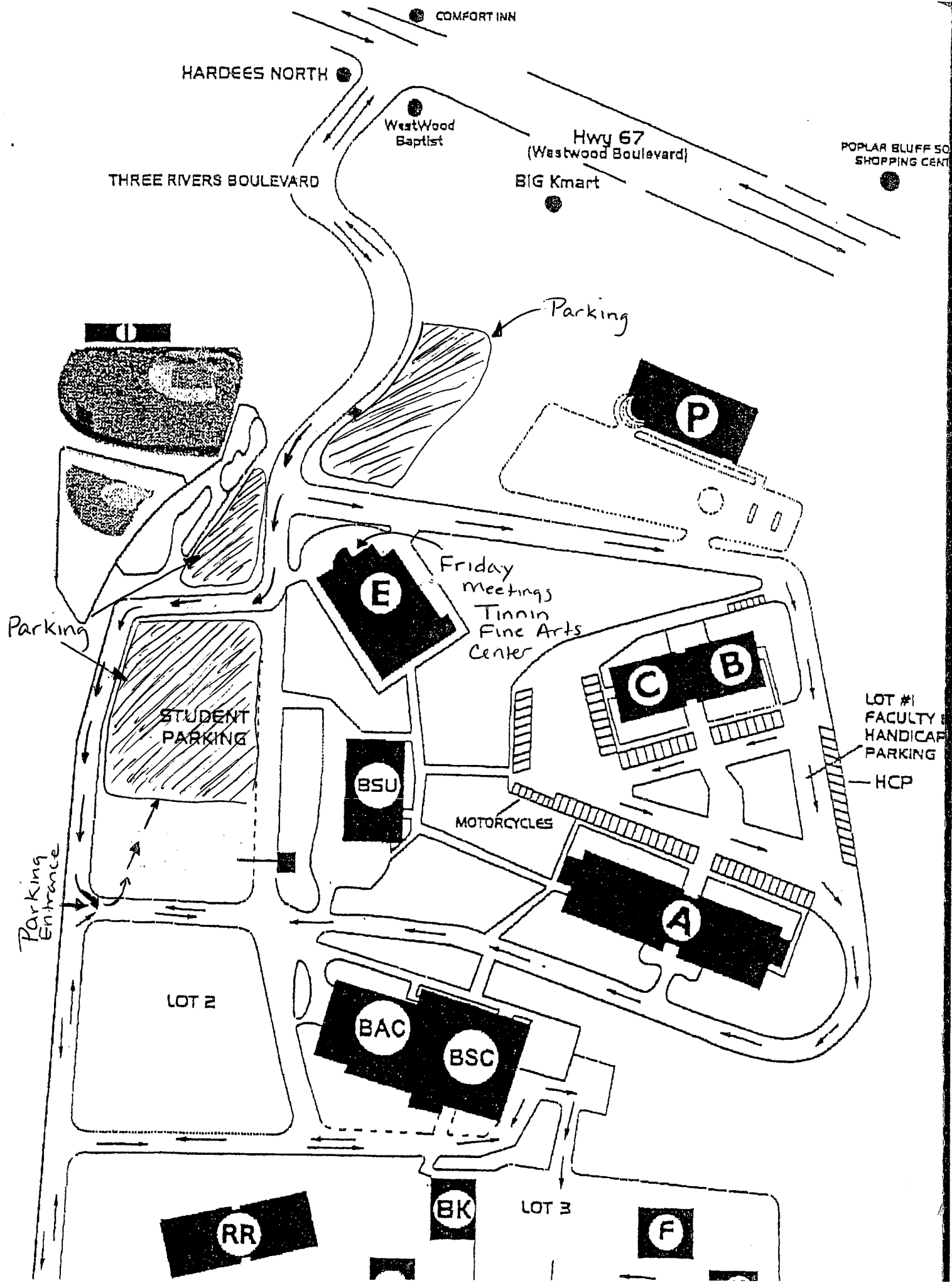
We have put together a wide variety of sessions from which you can choose to attend this weekend. It is our hope that you will find the sessions entertaining, thought-provoking, and useful. So enjoy your time at the conference by pondering pedagogical questions, renewing friendships with colleagues, making new acquaintances, and leaving with a refreshed commitment to teaching excellence.

Jason Pallett

MOMATYC President-Elect and Conference Chair

March 29-31, 2007  
Three Rivers Community College  
Poplar Bluff, Missouri







### Friday Evening Dinner Options

A room has been reserved at Las Margaritas from 6:00pm – 10:00pm. To get there from the hotel, you will pass the road to the college and through the stop light at the Pear Tree Inn. Turn left between Colton's Steakhouse and Long John Silvers. Las Margaritas is just beyond Country Mart on the left. The room will easily accommodate 60 people. There will be a cash bar in the room and you may order off the menu. The meal is at your own expense, but this is a good opportunity to network with others from around the state.

For those of you who wish to dine at another place, I have listed local restaurants below. All of these restaurants are on Hwy. 67 which is the main road through town. If you choose to eat at one of these other restaurants, please consider coming by Las Margaritas after your dinner to join in on the networking.

Pasta House  
McDonald's  
Taco Bell  
Hardees  
El Acapulco  
Costello's Italian  
Colton's Steakhouse  
Long John Silver's /A & W  
5-Star China Buffet  
Perkins Family Restaurant  
Grecian Steakhouse  
China Garden  
Pizza Inn  
Subway  
Pizza Hut  
San Francisco Bread Company  
Mongolian Grill  
Burger King  
Wendy's  
Cici's Pizza  
Godfather's Pizza  
Ruby Tuesday's  
Sonic  
Applebee's  
Ryan's Steakhouse  
Mayas Mexican Restaurant





MOMATYC Conference, March 29 – March 31, 2007  
Mini-Program

3/30  
Available pm  
E223 Computer lab

THURSDAY, 3/29/07		Holiday Inn Poplar Bluff
Time	Rooms	
7:30-9:00 p.m.		Registration
8:00-11:00 p.m.		Get Acquainted Reception in Three Rivers Room

FRIDAY, 3/30/07		Three Rivers Community College				
Time	Rooms	Theater Lobby	Theater – Building E	E105	E220	E221
	Registration Exhibitors					
8:00-9:00 a.m.			Continental Breakfast			
9:00-10:00 a.m.			F1: <i>Opening Session</i> Welcome/Introduction: Murray, SLCC - Meramec Keynote: Friedlander, UMSL			
10:15-11:00 a.m.				F2: <i>Keynote</i> <i>Address Q&amp;A</i> <i>Session</i> Friedlander, UMSL	F3: <i>What We</i> <i>Learned at the</i> <i>RUME Conference</i> Seese, SLCC – Meramec Kurt, SLCC – Meramec	F4: <i>Beyond</i> <i>Crossroads: Panel</i> <i>Discussion with</i> <i>Q&amp;A Session</i> Murray, SLCC - Meramec Haehl, MCC – Penn Valley
11:15 a.m.-12:00 noon				F5: <i>Using the CBR</i> <i>in the Classroom</i> Wheeler, Three Rivers CC	F6: <i>Grading</i> <i>Discussion: How</i> <i>does your grading</i> <i>method compare?</i> Pallett, MCC – Longview	Kays, SLCC - Meramec Long, St. Charles CC Schott, OTC Wildman, Casper CC
12:15-1:45 p.m.			Lunch – Theater Lobby			

Registration

Exhibitors

**FRIDAY, 3/30/07**      **Three Rivers Community College**

Time	Rooms	Theater Lobby	Theater – Building E	E105	E220	E221
2:00-2:45 p.m.		Registration Exhibitors		F7: An Innovation in Assessment and Instruction for On-Campus and Online Learning Commercial Presentation Given, PLATO Learning	F8: TI-Interactive: In and Out of the Classroom Frost, SLCC – Meramec	F9: Join the Mathematics Across the Community College Curriculum Project Cleaves, SW Tenn. CC
3:00-3:45 p.m.					F10: Calculus – DiffEq Roundtable Discussion Howe, St. Charles CC	F11: Mo-DEC: Do you know what it is, what it is doing, and what it proposes to do? Long, St. Charles CC
4:00-4:45 p.m.			F12: MOMATYC Annual Business Meeting			

**SAT., 3/31/07**      **Three Rivers Community College**

Time	Rooms	Lobby of Building A	A201	A204	A303	A308
8:30-9:00 a.m.		Registration				
9:00-9:45 a.m.				S1: Smartboard, Blackboard, Winplot, and Online Quizzes Haehl, MCC – Penn Valley	S2: Aleph-null n-D Cubes Tessellate an n-D Space Edgell, Texas State – San Marcos	S3: Statewide Curriculum Survey: How does your college compare? Daniels, St. Charles CC
10:00-10:45 a.m.				S4: Characteristics of Community College Students McManus, SLCC - Meramec	S5: Faculty Math League Murray, SLCC-Meramec	LeGrand, St. Charles CC
11:00-11:30 a.m.			S6: Closing Session Murray, SLCC - Meramec			Schantz, E. Central College Meyers, Jefferson College

## **2007 Keynote Speaker – Dr. Richard Friedlander**

Dr. Richard Friedlander received his B.A., M.A., and Ph.D. in Mathematics from the University of California at Los Angeles. Also, he received an M.Ed. in Mathematics Education from Washington State University. He has held a joint appointment in Mathematics and Education at the University of Missouri -St. Louis since 1972. He has been Associate Chair of the Department of Mathematics and Computer Science at the university since 1992. He also coordinates of the university's secondary mathematics education program.

Dr. Friedlander has broad experience working with local schools. He coordinates the university's advanced credit calculus program for high school students, and he also supervises the university's prospective mathematics teachers in their pre-service teaching experiences.

Dr. Friedlander has been a frequent speaker at conferences of professional organizations at local, state, regional, national, and international levels. From 1988-1991, he was co-principal investigator of a National Science Foundation teacher enhancement grant to raise the awareness of high school teachers of the breadth of applications of mathematics. In 1995 he received the Governor's Award for Excellence in Teaching from the state of Missouri, and in 2002 he received the Mathematics Educators of Greater St. Louis Teacher of the Year Award.

Dr. Friedlander has taught a wide variety of mathematics and mathematics education courses at both the undergraduate and graduate levels. In addition, he has published numerous articles in both mathematics and mathematics education. He has recently become interested in finding ways for teachers of mathematics at both the pre-collegiate and two-year college levels to attain a deeper and more profound understanding of the mathematics that they teach, and to convey this understanding to their students in an effective manner. To that end, he has developed and taught a graduate mathematics content course at the University of Missouri - St. Louis entitled "Topics in Advanced Mathematics for the Teacher." In his keynote address, he plans to discuss some of the topics that he includes in this course.



**PROGRAM SUMMARIES**  
**2007 MOMATYC SPRING CONFERENCE**  
**Thursday March 29 – Saturday March 31, 2007**  
**Three Rivers Community College**  
**Poplar Bluff, Missouri**

**F1: Opening Session**

*Friday, 9:00am – 10:00am, Theater in Building E*

Welcome and Introduction: Russell Murray, MOMATYC President

Keynote Address:     **Mathematics for Teachers: An Advanced Perspective**  
Dr. Richard Friedlander, University of Missouri, St. Louis

Summary:     There is much mathematical content that is of interest to mathematics teachers at the middle, high school, and two-year college levels, but which is not part of the standard mathematics curriculum that most of these teachers take. At the University of Missouri – St. Louis, two mathematics content courses for teachers that focus on incorporating some of this content are offered. The objectives in these courses include giving teachers a deeper understanding of the mathematics that they teach, extending and generalizing mathematical ideas in ways that most of them have not thought about, and drawing connections between various branches of mathematics. The majority of this talk will consist of giving examples of some of the mathematical content that is included in these courses in an effort to achieve these objectives.

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**F2: Keynote Address Question and Answer Session**

*Friday, 10:15am – 11:00am, Room E105*

Presenter: Dr. Richard Friedlander, University of Missouri-St. Louis  
Presider: Russell Murray, St. Louis Community College-Meramec  
Summary: Keynote speaker Richard Friedlander will conduct a question-and-answer session which will allow for further answers, discussion, and explanation surrounding topics in his keynote address.

**F3: What We Learned at the RUME Conference**

*Friday, 10:15am – 11:00am, Room E220*

Presenters: Lillian Seese, St. Louis Community College-Meramec  
Barb Kurt, St. Louis Community College-Meramec  
Presider: Lola Swint, North Central Missouri College  
Summary: A Special Interest Group of MAA holds a conference each year focusing on research in undergraduate mathematics education. This forum for researchers in collegiate mathematics education provides attendees with great ideas regarding assessment of student learning. Come and see what Lillian and Barb brought back from the 2006 conference.

**F4: Beyond Crossroads: Panel Discussion with a Question and Answer Session**

*Friday, 10:15am – 12:00pm, Room E221*

Presenters: Russell Murray, St. Louis Community College-Meramec  
Martha Haehl, Metropolitan Community College-Penn Valley  
Vern Kays, St. Louis Community College-Meramec  
Wanda Long, St. Charles Community College  
Linda Schott, Ozarks Technical College  
Pete Wildman, Casper College  
Presider: Linda Hoppe, Jefferson College  
Summary: At the 2006 AMATYC Conference in Cincinnati, the *Beyond Crossroads* document was unveiled, a document that expands upon the *Crossroads* document of 1995. At the 2007 MOMATYC Spring Conference, MOMATYC members will receive their own *Beyond Crossroads* materials. At this session, attending members will be brought up to date with the latest information from expert panel members and have the opportunity to participate in a *Beyond Crossroads* question and answer session.

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**F5: Using the CBR in the Classroom**

*Friday, 10:15am – 12:00pm, Room E105*

Presenter: Kevin Wheeler, Three Rivers Community College

Presider: Andrew Stephan, St. Charles Community College

Summary: The presenter will show how he uses a CBR in his math classroom. Activities will range from Beginning Algebra to Calculus. Participants will have time to play with the units as well. Graphing calculators will be available.

**F6: Grading Discussion: How does your grading method compare?**

*Friday, 10:15am – 12:00pm, Room E220*

Presenter: Jason Pallett, Metropolitan Community College-Longview

Presider: Donna Kessler, Moberly Area Community College

Summary: The presenter will provide the audience with copies of three different exams that were recently given in his College Algebra class. Participants will be asked to grade each of the exams. After grading the exams, members of the audience will share their results so that different methods of grading can be compared.

**F7: An Innovation in Assessment and Instruction for On-Campus and Online Learning**

*Friday, 2:00pm – 3:45pm, Room E105*

Presenter: Ron Given, PLATO Learning

Summary: Participants will review common needs for on-campus and online courses in developmental math, and then how the features of Academic Systems Algebra may address those needs.

**F8: TI-Interactive: In and Out of the Classroom**

*Friday, 2:00pm – 3:45pm, Room E220*

Presenter: Jim Frost, St. Louis Community College-Meramec

Presider: Nicole Sifford, Three Rivers Community College

Summary: TI-Interactive is a document-creation program with the math features of a powerful TI graphing calculator. Data accessed and extracted from the Web using an internal Web Browser will be analyzed within the built-in data editor (spreadsheet), fitted with the best-fit function and then graphed. Producing graphs for the classroom will also be examined.

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**F9: Join the Mathematics Across the Community College Project**

*Friday, 2:00pm – 2:45pm, Room E221*

Presenters: Dr. Cheryl Cleaves, Southwest Tennessee Community College  
Joyce Gray, Southwest Tennessee Community College

Presider: Ken Eichman, Metropolitan Community College – Longview

Summary: Join the MAC<sup>3</sup> project: show students and faculty that mathematics is everywhere and for everyone, reduce math anxiety, support lifelong learning and collaboration, and revitalize your teaching. Also included: fresh mountain air in the summer and sunny beaches in the winter.

**F10: Calculus – Differential Equations Roundtable Discussion**

*Friday, 3:00pm – 3:45pm, Room E220*

Presenters: Joe Howe, St. Charles Community College  
Russell Murray, St. Louis Community College-Meramec

Presider: Jim Frost, St. Louis Community College-Meramec

Summary: The presenters will engage the audience in a discussion about issues of interest in the Calculus sequence and Differential Equations. Topics may include placement, assessment, teaching the entire Calculus sequence verses only one semester, proofs, technology, and other issues. Whether you teach Calculus regularly or never have, please join us!

**F11: MoDec: Do you know what is, what it is doing, and what it proposes to do?**

*Friday, 3:00pm – 3:45pm, Room E221*

Presenter: Wanda Long, St. Charles Community College

Presider: Sharon Hamsa, Metropolitan Community College-Longview

Summary: A roundtable discussion about MoDEC, the Missouri Development Education Consortium, and its past, present, and future activities.



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**S1: Smartboard, Blackboard, Winplot, and Online Quizzes**

*Saturday 9:00am – 9:45am, Room A204*

Presenter: Martha Haehl, Metropolitan Community College-Penn Valley

Presider: Linda Schott, Ozarks Technical College

Summary: In adopting technology the presenter always asks as a backdrop, “How can technology enhance mathematical concepts and increase communication without increasing her workload?” The presenter will share how she has integrated various technology in teaching all levels of mathematics.

**S2: Aleph-null n-D Cubes Tessellate and n-D Space**

*Saturday, 9:00am – 9:45am, Room A303*

Presenter: Dr. John Edgell, Jr., Texas State University-San Marcos

Presider: Russell Murray, St. Louis Community College-Meramec

Summary: The presentation will emphasize the importance of knowing that aleph-null n-D cubes tessellate an n-D space for understanding measurement geometry. The presenter is a constructionist who guides participants through the use of hands-on manipulative objects to discover principles of geometry. Notes will be provided.

**S3: Statewide Curriculum Survey: How does your college compare?**

*Saturday, 9:00am – 10:45am, Room A308*

Presenters: Callie Daniels, St. Charles Community College  
Jennifer LeGrand, St. Charles Community College  
Rebecca Schantz, East Central College  
Beverly Meyers, Jefferson College

Presider: Wanda Long, St. Charles Community College

Summary: The first part of the session will be a presentation of statewide survey results about the curriculum covered in the algebra courses taught at Missouri Community Colleges. The second part will be a roundtable discussion regarding the survey results and topics related to covering the curriculum.

**S4: Characteristics of Community College Students**

*Saturday, 10:00am – 10:45am, Room A204*

Presenter: Laurie McManus, St. Louis Community College-Meramec

Presider: Martha Haehl, Metropolitan Community College-Penn Valley

Summary: Characteristics of Community College Students: Survivors, Adjustors, Encounterers, Experimenters. These are just a few of the words used in the research literature of education to describe students at the community college. The presentation will include characterizations of community college students and suggested strategies for helping each “type” to succeed.

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**S5: Faculty Math League**

*Saturday, 10:00am – 10:45am, Room A303*

Presenter: Russell Murray, St. Louis Community College

Summary: In both fall and spring semesters, AMATYC conducts a Student Math League competition for community college students who have had at least a precalculus background. But who's to say that math faculty can't join in the fun? Here's your opportunity to take a similar test under competition conditions. You'll also receive information and advice on how to host a Student Math League competition on your own campus. Be sure to bring your graphing calculator!

## **WE ASK YOUR HELP**

Plans will very quickly be getting under way for the 2009 conference. We ask that you take a few moments to complete two forms. An evaluation of this conference and a questionnaire asking for assistance with ideas for future conferences are included in the notebook. Forms may be returned in the container designated at the Registration table.

Your input will make a better conference in 2008.

Thanks



# NOTES



# PARTICIPANTS





# **LIST OF PARTICIPATING SCHOOLS**

Casper College Wyoming

East Central Community College

Jefferson College

Longview Community College

Missouri State University

North Central Missouri College

Ozarks Technical Community College

Penn Valley Community College

St. Charles Community College

St. Louis Community College – Florissant Valley

St. Louis Community College – Meramec

Southeast Missouri State University

Southwest Tennessee Community College

Texas State University – San Marcos

Three Rivers Community College

University of Missouri – St. Louis



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A  
Heartfelt  
**THANK YOU**

To

All Companies,  
Schools  
And  
People

Who have contributed to  
Make this conference a  
Success.



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