MOMATYC

Missouri Mathematical Association of Two-Year Colleges

2014 Spring Conference

The Lodge of Four Seasons

Lake of the Ozarks

Keynote Guests: MaryAnne Anthony-Smith & Lynn Marecek

MaryAnne Anthony-Smith and Lynn Marecek have been teaching mathematics at Santa Ana College in Orange County, California for many years. They have worked together on several projects focusing on improving student learning in the developmental math courses. They have won the Santa Ana College Curriculum Development Award for their projects: Strategies for Success; Links to Literacy; Manipulative Mathematics.

Lynn Marecek has focused her career on meeting the needs of developmental math students during her tenure as a professor at Santa Ana College and prior to that as a high school teacher. No matter what she is involved in, her passion is her students-especially those who have struggled with math. At Santa Ana College she has been awarded the **Distinguished Faculty Award** and the **Curriculum Development Award** four times. She has served as Coordinator of Freshman Experience Program, Department Co-chair, Department Facilitator for Redesign, and as a member of the Student Success Committee and the Basic Skills Initiative Task Force. She is a member of the AMATYC Developmental Math Committee. Lynn holds a bachelor's degree from Valparaiso University and master's degrees from Purdue University and National University. She has also completed work in a doctoral program in Instructional Leadership in Curriculum and Instruction in Higher Education.

MaryAnne Anthony-Smith has taught mathematics at Santa Ana College for over 35 years. She has been honored at the college with the **Professional Development and Distinguished Faculty awards**. She has served as department chair, acting dean, institutional researcher, and principal investigator on several state and federally-funded grants. She is a member of AMATYC's Placement and Assessment Committee. She is the author of one chapter of the 1999 NCTM publication Developing Mathematically Promising Students She holds a bachelor's degree from the University of California San Diego and master's degrees from San Diego State and Pepperdine Universities.

Lynn and MaryAnne's keynote address will focus on their work ***Strategies for Success: Study Skills for the College Math Student***, published in 2011 by Pearson Higher Ed. Strategies for Success includes study skills activities specific to fostering success in college mathematics. These activities enable the students to take an active approach to determine specifically what they can do to become successful math students.

Strategies for Success were developed over many semesters from Lynn's and MaryAnne's firsthand experience with their own students. They have been fully integrated into Santa Ana College's Pre-algebra, Elementary Algebra, and Intermediate Algebra classes. Data has shown that the classes taught by teachers using *Strategies for Success,* compared to other sections of the same courses, had higher rates of both retention and success.

Conference at a Glance

Thursday, April 4, 2014

When	What	Where
6:00 – 10:00pm	Reception and Conference Check-In *Join us for snacks, drinks, and conversation*	Hospitality Suite 6434

Friday, April 5, 2014

When	What	Where
8:00 – 8:30am	Conference Check-In	Marbella A
8:30 – 10:15am	Breakfast (ticket required) Opening Session: *Empowering Faculty to Integrate Study Skills with Content*	Marbella A
10:30 – 11:20am	Breakout Session 1	Marbella A / Malaga / Escollo Club Room
11:30 – 12:20am	IGNITE!	Marbella A
12:20 – 1:00pm	Visit our Vendors	Sea Chase
1:00 – 1:45pm	Lunch (ticket required)	Sea Chase
2:15 – 3:05pm	Breakout Session 2	Marbella A / Malaga / Escollo Club Room
3:15– 5:30pm	General Session and Business Meeting *Special Guest: Rusty Monhollon*	Marbella A
6:00 – 10:00pm	Optional Pizza Party (Additional Cost)	Hospitality Suite 6434

Saturday, April 6, 2014

When	What	Where
8:00 – 9:00am	Breakfast on your own	
9:00 – 9:50am	Breakout Session 3	Marbella A / Malaga / Sea Chase
10:00 – 10:50am	Breakout Session 4	Marbella A / Malaga / Sea Chase
11:00 – 12:30pm	Closing Session Attendance Prizes	Marbella A

Presentation Schedule

Breakout Session 1: Friday 10:30am – 11:20am			
Title	**Presenter**	**Category**	**Room**
Empowering Faculty to Integrate Study Skills with Content	Maryanne Anthony, Lynn Meracek	Developmental, College Level	Malaga
The Mathematics of Bubbles	Lillian Seese	Developmental, College Level, General Interest	Marbella A
Teaching Algebra in the Age of WolframAlpha	Mike Lueke	Developmental, College Level	Escollo Club Room
Workshop Session 2: Friday 2:15pm – 3:05pm			
How to offer an Overcoming Math Anxiety workshop	Mike Lueke	Developmental, General Interest	Escollo Club Room
A Walk Down Memory Lane with the Golden Girls	Barbara Kurt, Toni Garrett, Lillian Seese	General Interest	Marbella A
This Crazy Thing Called College Algebra	Jason Pallett	College Level, Instructional Strategies	Malaga
Breakout Session 3: Saturday 9:00am – 9:50am			
Title	**Presenter**	**Category**	**Room**
And you thought the Birthday Problem was only a Curiosity?	Steven J. Wilson	College Level	Malaga
Teaching Online: Tips, Tools, and Results	Patricia Suess	Instructional Strategies, Distance Learning, Teacher Prep	Marbella A
The Open Admissions Policy in Missouri Community Colleges—Here's Reality!	Wanda Long, Juliet Scherer	Developmental, General Interest	Sea Chase
Breakout Session 4: Saturday 10:00am – 10:50am			
Encountering Differential Geometry in the Calculus Sequence	James Munden	College Level, General Interest	Marbella A
Quantitative Literacy: >, <, or = Liberal Arts Math?	Dave Sobecki	College Level, Instructional Strategies, General Interest	Malaga
The Open Admissions Policy in Missouri Community Colleges—Here's Reality! (Continued)	Wanda Long, Juliet Scherer	Developmental, General Interest	Sea Chase

Breakout Session 1: Friday 10:30 – 11:20am

Breakout Session 1 Friday 10:30 – 11:20am	Keynote Address Follow-Up Workshop	Lynn Maracek MaryAnne Anthony	Participants will have the opportunity to create a study skills activity that will be personalized for their classes.	Dev Education Courses College Level Courses
Breakout Session 1 Friday 10:30 – 11:20am	The Mathematics of Bubbles	Lillian Seese St. Louis CC Meramec	Come learn about why bubbles behave the way they do, and how bubbles act as minimal surfaces - they are able to solve calculus problems.	Dev Education Courses College Level Courses General Interest
Breakout Session 1 Friday 10:30 – 11:20am	Teaching Algebra in the Age of WolframAlpha	H Michael Lueke St. Louis CC Forest Park	Computer Algebra Systems (CASs) are not new but have proliferated and are free online and cheap purchases on smartphones. What do these tools mean for teaching mathematics, particularly algebra? A common response is to ban them from our classes, how can faculty use them for student learning?	Dev Education Courses College Level Courses

Breakout Session 2: Friday 2:15 – 3:05pm

Breakout Session 2 Friday 2:15 – 3:05pm	Developing and Leading Overcoming Math Anxiety Workshops for Students	H Michael Lueke St. Louis CC Forest Park	Faculty know well that math is anxiety-inducing discipline the general population and possibly more acutely so for our students. This presentation describes the development of a workshop offered to students at St Louis Community College, Forest Park for overcoming math anxiety. In addition, lessons learned over the last two years of workshops will be shared.	General Interest
Breakout Session 2 Friday 2:15 – 3:05pm	A Walk Down Memory Lane with the Golden Girls	Toni Garrett, Barbara Kurt, Lillian Seese St. Louis CC	Join us at our final MOMATYC Conference (YES! We are retiring this Spring!) as we share a (sometimes humorous) look at the evolution of math education through our eyes. This will be a casual session ending with a sharing of ideas regarding what worked, what didn't work and where we YOU are going from here.	General Interest
Breakout Session 2 Friday 2:15 – 3:05pm	This Crazy Thing Called College Algebra	Jason Pallett Metropolitan CC	The presenter will offer his perspective on difficulties that can arise in attempting to teach a quality College Algebra class. He will proceed to offer possible solutions to these problems, including strategies that he has implemented in his College Algebra classes. Bring your cell phone for an activity!	College Level Courses Instructional Strategies

Breakout Session 3: Saturday 9:00 – 9:50am

Breakout Session 3 Saturday 9:00 – 9:50am	And You Thought the Birthday Problem Was Only a Curiosity?	Steven J. Wilson Johnson County CC	The birthday problem is often presented as an interesting probability problem, but with little connection to other topics. The presenter will relate this problem to Johnny Carson, extraterrestrial calendars, and digital signatures, along with approximation methods, probability distributions, and a few historical tidbits.	College Level Courses
Breakout Session 3 Saturday 9:00 – 9:50am	Teaching Online: Tips, Tools, and Results	Patricia A. Suess, Ph.D. St. Louis CC Florissant Valley	Whether you are considering teaching mathematics online or are a seasoned online instructor, this presentation is for you! This session will include a preview of the presenter's online course materials; an opportunity for participants to share a glimpse at their online course; a discussion of successful strategies and tools; sharing of difficulties and concerns; a presentation of comparative student success data for online versus classroom-based course offerings.	Instructional Strategies Distance Learning Teacher Preparation
Breakout Session 3 Saturday 9:00 – 9:50am	The Open Admissions Policy in Missouri Community Colleges— Here's Reality!	Wanda Long St. Charles CC Juliet Scherer St. Louis CC	Who are the students enrolled in the community college under open admissions policy? Who was unsuccessful and why? Plus a narrative of establishing a floor/threshold for math placement scores and the results and experience of this action at a second institution.	Dev Education Courses General Interest

Breakout Session 4: Saturday 10:00 – 10:50am

Breakout Session 4 Saturday 10:00 – 10:50am	Encountering Differential Geometry in the Calculus Sequence	James J Munden St. Louis CC Forest Park	Students of calculus are usually exposed to concepts of differential geometry but rarely encouraged to think in geometric ways. This presentation will contain how curvature--including Gauss's Theorema Egregium-- and other concepts from differential geometry can be used in a typical undergraduate calculus course.	College Level Courses General Interest
Breakout Session 4 Saturday 10:00 – 10:50am	Quantitative Literacy: >, <, or = Liberal Arts Math?	Dave Sobecki Miami University Hamilton	Quantitative literacy is a growing movement in many areas of the country, as more schools and states realize that College Algebra is a, shall we say, less than ideal terminal course. So what exactly does this mean? How does Quant Lit compare to Liberal Arts Math? Let's see!	College Level Courses Instructional Strategies General Interest
Breakout Session 4 Saturday 10:00 – 10:50am	The Open Admissions Policy in Missouri Community Colleges— Here's Reality! (Continued from 9am Session).	Wanda Long St. Charles CC Juliet Scherer St. Louis CC	(Continued from 9am Session)	Dev Education Courses General Interest

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