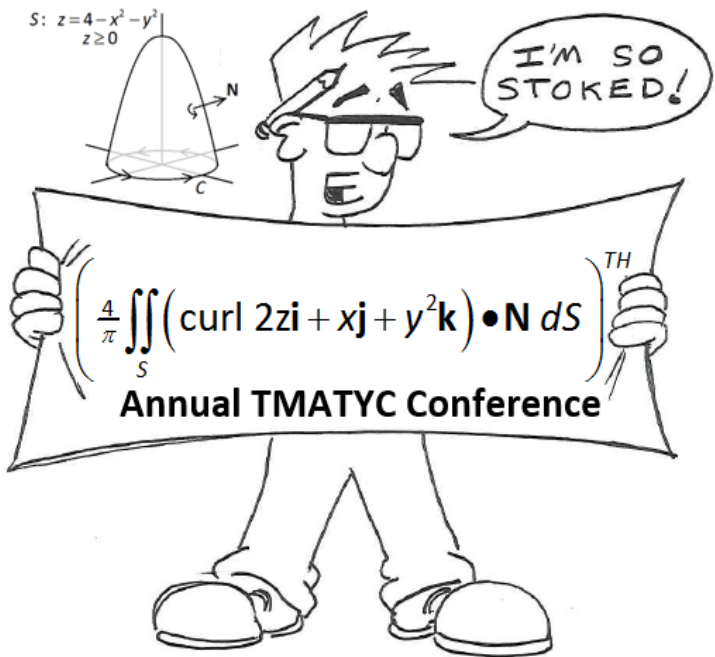




**TMATYC 2017
Conference Program
March 24-25, 2017**



**MISSISSIPPI STATE
COMMUNITY COLLEGE**

Knoxville, TN
www.pstcc.edu

Pellissippi State Community College
Directions to the Hardin Valley Campus
10915 Hardin Valley Road
Knoxville, TN 37933-0990

Directions:

East: Driving east on I-40, take Exit 376, State Hwy. 162 / Pellissippi Parkway / Oak Ridge.

- Take Pellissippi Parkway 3.5 miles to the Hardin Valley Road exit.
- Turn left on Hardin Valley Road.
- Turn right at the first road after the underpass (Solway Road).
- Turn left into the Pellissippi State entrance.

West: Driving west on I-40, take Exit 376A, State Hwy. 162 / Pellissippi Parkway / Oak Ridge.

- Take Pellissippi Parkway 3.5 miles to the Hardin Valley Road exit.
- Turn left on Hardin Valley Road.
- Turn right at the first road after the underpass (Solway Road).
- Turn left into the Pellissippi State entrance.

**Welcome to the Sixteenth Annual
TMATYC Conference
Pellissippi State Community College
Knoxville, Tennessee**

Friday, March 24, 2017

12:00-4:00	AMATYC Traveling Workshop – GN 136 Auditorium Preregistration Required
10:00 - 11:45	Executive Committee Meeting – AL 220 Conference Room
12:00-6:00	Computer Room (Internet Access) – AL 228
2:00 - 6:00	Registration – GN 156 – College Center
2:00 – 6:15	Displays – GN 156 – College Center
2:00 - 6:00	Snacks Available – GN 156 – College Center (Snacks Sponsored by Cengage)
4:15 - 5:05	Concurrent Session I – Alexander Building
5:15 - 6:05	Concurrent Session II – Alexander Building
6:15 - 7:15	Banquet – GN 151A - Cafeteria
7:15 - 8:15	General Session – GN 136 Auditorium

4:15 – 5:05 Concurrent Session I

Session	Room	Presenter/Topic
S1.1	AL 124	<p>Presenter(s): Deanne Williams Dyersburg State Community College</p> <p>ALEKS Fixed Our Algebra Co-requisite Dyersburg State struggled to implement the co-requisite model last year. Come learn how we restructured our algebra co-requisite and used ALEKS to improve our results.</p>
S1.2	AL 126	<p>Presenter(s): Paula J. Sawyer Pellissippi State Community College</p> <p>Math History 101: An Alternative Approach for Non-STEM Students An exploration of the history of mathematics from the ancient world to the Renaissance as an alternative math credit for non-STEM students.</p>
S1.3	AL 150	<p>Presenter(s): Jonathan Shands Volunteer State Community College and Cape Fear Community College</p> <p>Centralizing the Course Information Restructuring Pearson CMS to have the necessary resources be centralized to one page and reducing the number of tabs listed on the left hand side.</p>
S1.4	AL 151	<p>Presenter(s): Vicki Borlaug Walters State Community College</p> <p>Calculus: Toy Helicopter (Acceleration & Concavity) Participants will use the vertical motion of toy helicopters to explore the relationships between acceleration and the concavity of a height verses time graph.</p>

S1.5	AL 225	<p>Presenter(s): Phillip Hyun and Jill Denton Roane State Community College</p> <p>Application of Mathematics to Physics and Engineering Summary of mathematical equations from algebra to differential equations that are commonly used to solve physics and engineering problems.</p>
S1.6	AL 227	<p>Presenter(s): Susan Mosteller and Ellen Matheny Pellissippi State Community College</p> <p>Desmos Teacher: More Than a Graphing Tool Experience the new engaging interactive components of Desmos! Create self-paced lessons and assessments using Desmos Teacher and Desmos Student.</p>

5:15 – 6:05 Concurrent Session II

Session	Room	Presenter/Topic
S2.1	AL 124	<p>Presenter(s): Marilyn McClanahan and Chris Culliton Pellissippi State Community College</p> <p>Just in Time Co-remediation in Mathematics Overview of Pellissippi’s design approach for non-STEM co-remediation courses, delivering timely remediation in support of college-level course content, with flexible use of co-remediation class time.</p>
S2.2	AL 126	<p>Presenter(s): Amber Sullivan Nashville State Community College</p> <p>Using Manipulatives to Teach Conditional Probability The presentation will discuss the use of pattern blocks to provide a hands-on way of teaching conditional probability allowing students to develop the formula themselves.</p>
S2.3	AL 150	<p>Presenter(s): Emily Casey Pellissippi State Community College</p> <p>Teaching Undergraduate Mathematics Using Primary Source Projects Participants will experience an approach to teaching undergraduate mathematics which brings history to the mathematics classroom via guided reading projects based on original sources.</p>
S2.4	AL 151	<p>Presenter(s): Jianfeng Zhang and Ian Beck Chattanooga State Community College</p> <p>Using D2L to Prepare for the TMATYC Math Contest We will discuss using D2L as a platform to prepare and engage students and other faculty members and integrate the contest into our classrooms.</p>

S2.5	AL 225	<p>Presenter(s): Charles Conrad Volunteer State Community College</p> <p>A New Approach - Math 1780 - Quantitative Research</p> <p>The course is intended to serve as an introduction to the use of statistics as a vital analytical tool in research and research design and when coupled with the R programming language will provide a powerful and robust tool for students to analyze real data sets in a meaningful way.</p>
S2.6	AL227	<p>Presenter(s): Cindy Angers, Lorri Morgan and Wendy Mears Pearson</p> <p>MyMathLab: What's in it for me?</p> <p>Wondering how MyMathLab can help you address the under preparedness of your students? Curious as to the latest features and how you might use them in a course? Wishing you could easily access student performance data in various ways? Let's learn more about how you can optimize your use of MyMathLab and customize your students' learning experience.</p>

Friday (continued)	
6:15 - 7:15	Banquet – GN 151A - Cafeteria
7:15-8:15	<p>General Session – GN 136 - Auditorium</p> <p>Dean Evasius U.S. National Science Foundation “The Vitality of the Mathematical Sciences”</p>



Dean Evasius is the Division Director for the Division of Graduate Education at the U.S. National Science Foundation. In this role he has a national leadership responsibility in advancing graduate research and education in STEM disciplines, and oversees a program portfolio that provides funding of over \$280 million annually.

He was previously a Senior Vice President at ORAU, where he directed a \$300 million dollar portfolio of programs in scientific assessment and STEM research and education. ORAU is a consortium of 114 Ph.D. granting academic institutions that cultivates scientific and educational partnerships between the public and private sectors. ORAU manages the Oak Ridge Institute for Science and Education for the United States Department of Energy.

Dr. Evasius has also served as research mathematician at the National Security Agency. He has published on topics in harmonic analysis, cryptography, statistics, machine learning, and signals analysis. He received the Ph.D. degree in mathematics from the California Institute of Technology.

Saturday March 25, 2017

8:00 – 10:30	Registration – GN 156 – College Center
8:00 – 12:30	Displays – GN 156 – College Center
8:00 – 9:00	Breakfast (Continental) – GN 156 – College Center (Breakfast Sponsored by McGraw-Hill)
9:00 – 11:30	Snacks Available – GN 156 – College Center (Snacks Sponsored by Cengage)
9:00 - 12:00	Computer Room (Internet Access) – AL 228
9:00 – 10:20	Roundtable Discussions – GN 156 – College Center, GN 151A – Cafeteria, GN 151B Cafeteria Annex
10:20-10:50	Visit Vendor Displays – GN 156 – College Center
11:00 – 11:50	Concurrent Session III – Alexander Building
12:00 – 12:50	Concurrent Session IV – Alexander Building
1:00 – 2:30	Lunch, Presentation of Awards, & Business Meeting – GN 151B – Cafeteria (Lunch Sponsored by Pearson)

9:00 – 10:20 Roundtable Discussions

Session	Room	Presenter/Topic
RD1	GN 156 College Center	Host: Angela Partelow Pellissippi State Community College Flip or Flop? Successes and failures as they relate to a flipped classroom
RD2	GN 156 College Center	Host: Jenny von Jouanne Chattanooga State Community College A discussion on a math course embedded in an engineering technology program while investigating benefits of the co-requisite model of remediation
RD3	GN 151A Cafeteria	Host: Brittany Mosby Pellissippi State Community College Co-requisite remediation for statistics and other topics for statistics
RD4	GN 151A Cafeteria	Host: Kara Raymond Pellissippi State Community College Online vs paper homework
RD5	GN 151A Cafeteria	Host: Susan Davis Dyersburg State Community College Learning Communities
RD6	GN 151B Cafeteria Annex	Host: Bob Stern Pellissippi State Community College Low cost textbook and course material options. A discussion on how to lower the cost of textbooks and other ancillaries.

11:00 – 11:50 Concurrent Session III

Session	Room	Presenter/Topic
S3.1	AL 124	<p>Presenter(s): Aaron Willmon and Jason Holcomb Chattanooga State Community College</p> <p>Data Reporting with Dashboard Use the Pearson Reporting Dashboard and Excel to dive deep into statistical analysis of your courses on an institutional level. We will discuss what we found in our MATH 1530 Statistics courses and what it took to get there.</p>
S3.2	AL 126	<p>Presenter(s): Judy Fethe and Susan Mosteller Pellissippi State Community College</p> <p>APPy Hour - It's 5:00 Somewhere Come to APPy Hour and explore educational and entertaining APPs and applets to use in your math classroom. BYOD and enjoy the free APPetizers!!</p>
S3.3	AL 150	<p>Presenter(s): Elizabeth Weaver and Jennifer Mayer Roane State Community College</p> <p>A STEM-Track Co-requisite Course The early results of a co-requisite model in which first-year college students take a math-intensive college-credit mathematics course and remedial course in the same semester.</p>
S3.4	AL 151	<p>Presenter(s): Marilee Gorta, Michael Darrell, Lori Giles, James Smith, Lisa Green, Scott McDaniel, Nancy McCormick, Jeremy Strayer, Ginger Holmes Rowell Columbia State Community College and Middle Tennessee State University</p> <p>Collaborating to Promote Active Learning in Introductory Statistics Faculty describe a collaboration to promote increased student engagement for learning introductory statistics</p>

		by using active learning and some components of a flipped classroom.
S3.5	AL 225	<p>Presenter(s): Emily Casey Pellissippi State Community College</p> <p>Organizing a Lecture and Film Series: Yes, you can! Pellissippi State has developed a successful lecture and film series that engages students and faculty through non-traditional math topics. This will be an information and discussion session.</p>
S3.6	AL 227	<p>Presenter(s): Jackie Vogel Austin Peay State University</p> <p>Explore Spatial Visualization with C-Rods This session will explore how to use c-rods to increase spatial visualization in courses for preservice teachers.</p>

12:00 – 12:50 Concurrent Session IV

Session	Room	Presenter/Topic
S4.1	AL 124	<p>Presenter(s): James McCoy Chattanooga State Community College</p> <p>Building a Math Club Increase student engagement by establishing a Math Club, the perils and payoffs and a chance to share ideas.</p>
S4.2	AL 126	<p>Presenter(s): Bill Weppner Southwest Tennessee Community College</p> <p>The Apollo Memory Turns 50. One Flight Controller's Story The story of my two years as an Apollo flight controller. Missions 7 through 13.</p>
S4.3	AL 150	<p>Presenter(s): Diann M. DeJulia and Kim Martin Pellissippi State Community College</p> <p>Think abstractly? Why? I'm going to teach K-6! Many students taking MATH 1420 put up a fight against thinking abstractly. Let's share ideas about getting these students to think "outside the box."</p>
S4.4	AL 151	<p>Presenter(s): Kathryn Arcangeli, Markus Pomper and Jill Denton Roane State Community College</p> <p>Action Research as Professional Development We will describe how a year-long action research project can be used to improve teaching and document professional development for tenure-probationary faculty.</p>

S4.5	AL 225	<p>Presenter(s): James Adair Dyersburg State Community College</p> <p>DSCC Success Rate in Online Statistics This presentation will provide information on best practices that were used to move the success rate of MATH 1530 online from 50% to over 75%.</p>
S4.6	AL 227	<p>Presenter(s): Angela Swider, Customer Success Manager, Cengage Learning</p> <p>Cengage Learning acquires WebAssign: Winning with Stability, Support & Student Success In late 2016, WebAssign was acquired by Cengage Learning; one of the largest education and technology companies worldwide. The acquisition builds on a long history of partnership between both parties and creates a powerful solution for STEM education. WebAssign, is a flexible and fully customizable online instructional solution that puts powerful tools in the hands of teachers, enabling them to deploy assignments, instantly assess individual student performance, and realize their teaching goals.</p>

Saturday (continued)

1:00 – 2:30 Lunch – GN 151A – Cafeteria
(Sponsored by Pearson)

During Lunch: Presentation of Awards

After Lunch: Business Meeting & Door Prizes

Thank you for attending the conference!

Please remember to complete the conference evaluation form and leave it in the box in the designated area or give it to any of the officers at the business meeting.

We hope to see you again at next year's conference.

Drive safely as you return home!

We extend our sincere gratitude to our sponsors and vendors who have provided prizes, displays and refreshments.

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A special thanks to the previous hosts of the TMATYC conferences for your guidance and suggestions.

A special thanks to the TMATYC officers for your assistance.

A special thanks to the Mathematics Department at Pellissippi State Community College for all your hard work!

Conference Coordinators: Angela Everett and Bobby Jackson

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