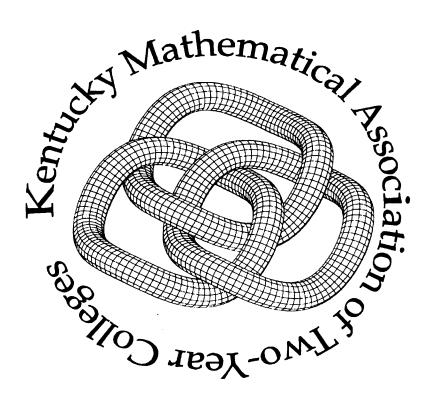
KYMATYC



43nd Annual Meeting
Conference Center
Rough River State Resort Park
Falls Of Rough, KY
Friday, February 24th &
Saturday, February 25th, 2017
All times are local time (central time)





http://mheducation.com

http://pearsoned.com



http://louisvillemegacavern.com



http://parks.ky.gov/parks/resortparks/rough-river/



http://bluegrass.kctcs.edu





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Forty-Third Annual Meeting of KYMATYC

Conference Agenda

Friday, February 24th, 2017 All times are local time (central time) 12:00 - ?? PM Registration

1:00 -1:50 Concurrent Session #1

Grayson Room

Presenter: Claudean Ellis, Angela Galloway, Jessica Bayer, and Christina Florence - Southcentral Kentucky Community and

Technical College

Presider: Pat Riley, Hopkinsville Community College

Accelerate your Students through the Developmental Math Sequence using MAT11 to replace MAT55, MAT65, and MAT85.

KCTCS has developed competency based curriculum for developmental math student based on their degree plan. With these updates, it has been apparent that some of the material we were requiring students to master before their college-level math class was unnecessary. When using MAT11, you can create a customized curriculum for each developmental math student, which lead them to reaching the college level math class quicker and better prepared. At SKYCTC we have collaborated with Pearson to develop MAT11 Transitional Algebra course to include MyMathLab Plus course and a corresponding workbook. We will provide them an overview of MAT11 course. We will stress the benefits of MAT11 from the MAT55/65/85 series. We will show how we have implemented MAT11 into our developmental program. In this presentation, we will show our progress from MAT55/65/85 series to the MAT11 Transitional Algebra and will highlight some of our successes.

Breckinridge Room

Presenter: Scott Taylor - Henderson Community College

Presider: Brandon Bartley, Jefferson Community and Technical College

History of College Algebra in Kentucky

As we continue to look toward an uncertain future influenced by performance-based funding, legislative emphases on co-requisite modeling, changing definitions of quantitative reasoning, and increases in technological presence in the classroom, mathematics faculty and decision makers might find value in looking at our past. College algebra has morphed throughout the years, and not everyone in the state may be on the same page regarding its current and official iteration. We will look at competencies, prerequisites, and course descriptions from the current and past.

Terrace Room

Presenter: David Sobecki

Presider: Jeff Herrin, Bluegrass Community and Technical College

Quantitative Reasoning and Math Literacy

Here's the worst-kept secret ever: The traditional math curriculum was not designed with non-STEM students in mind. In essence, we've treated every course as preparation for the next course, with little thought to the fact that most students will stop somewhere in the middle. Fortunately, momentum is growing nationally, and of course in Kentucky, for an alternative pathway that is more accessible and (more importantly) more appropriate for non-STEM students.

I'll describe two new courses that will not only fulfill math requirements for non-STEM students more quickly, but will also be a much richer and more useful experience for those students: Math Literacy (developmental level), and Quantitative Reasoning (college level).

2:00 – 3:15 Session #2

Featured Speaker

Grayson Room

Presenter: Dr. Brit Kirwan

Presider: Scott McClendon – Somerset Community College

Faculty led pathways for quantitative literacy and concurrent or co-requisite enrollment strategies.

Quantitative literacy is an essential requirement for college completion and success in today's data driven world of work. Sadly, meeting this requirement has become an insurmountable hurdle for too many students. Multiple mathematics pathways and corequisite developmental education show real promise for improving success rates for students. Drawing upon case studies, this session will provide a national perspective on the evolution and current state of these innovative strategies.

Dr. William Kirwan, is a nationally recognized authority on critical issues shaping the higher education landscape. Prior to his 13 years as chancellor of the University System of Maryland, Kirwan served as president of Ohio State University for four years and president of the University of Maryland, College Park for 10 years. He was also a member of the University of Maryland faculty for 24 years.

A respected academic leader, Kirwan is a sought-after speaker on a wide range of topics, including access and affordability, cost containment, diversity, innovation, higher education's role in economic development, and academic transformation. Along with his national and international presentations on key issues, he has authored many articles on issues in higher education and has been profiled and cited in academic and mainstream publications. He is co-editor of the book *Advances in Complex Analysis* and has published many articles on mathematical research.

Currently, Kirwan chairs the National Research Council Board of Higher Education and Workforce and co-chairs the Knight Commission on Intercollegiate Athletics. He also serves on the Business-Higher Education Forum. He is a member of the boards of the Maryland Chamber of Commerce, Greater Baltimore Committee, Economic Alliance of Greater Baltimore, Maryland Business Roundtable for Education, and other organizations.

Kirwan received his bachelor's degree in mathematics from the University of Kentucky and his master's and doctoral degrees in mathematics from Rutgers, The State University of New Jersey.

3:25-4:15 Concurrent Session #3

Grayson Room

Presenter: Dr. Brit Kirwan

Presider: Pat Riley, Hopkinsville Community College

This session will continue the discussion from session #2, exploring in greater depth the challenges of developing multiple pathways on a statewide basis, and examining successful approaches in Ohio and Maryland.

Breckinridge Room

Presenter: Jessica Bayer, Angela Galloway, Christina Florence, John Faine, Bryon Pennycuff - Southcentral Kentucky Community and Technical College

Presider: Brandon Bartley, Jefferson Community and Technical College

Successful Supplemental Strategies

Sharing results from previous years on students taking Supplemental mathematics instruction for MAT96/MAT150 and MAT96/MAT146 with students only taking MAT146 and MAT150. How our instructors approach the supplemental material and different strategies used for their supplemental MAT96 classes. What worked and what didn't.

Terrace Room

Presenter: Kausha Miller - Bluegrass Community and Technical College

Presider: Jeff Herrin, Bluegrass Community and Technical College

Panel discussion hosted by Pearson- Mandatory Placement: The System Ideal and the College Reality

What is your college doing with Mandatory Placement in Mathematics? Placement Testing? Co-Requisites? Have you seen success? Have there been "bumps" along the way? A brief recap of the KCTC System's priorities and proposals to be followed by a discussion-share about how the KCTCS Colleges are addressing the issue of Mandatory Placement. Bring your college's Mandatory Placement Policy or Course Flowcharts to share and discuss this important topic.

4:15-4:45 Break Visit Exhibitor's Tables and enjoy the refreshments

4:45-5:00 KYMATYC WELCOME – Door Prizes in Main Room shortly before Keynote

5:00 – 5:50 Keynote Address

Grayson Room

Presenter: Tom Carson

Presider: Scott McClendon, Somerset Community College

Close Encounters with Classics

What did the great thinkers of the past really say? We often present their contributions filtered through many years of refinements. Also, most great thinkers such as Descartes, Pascal, and Newton, were much more diverse in their interests and contributions than we remember. In this presentation, we explore examples of primary source materials to see that some of the greatest contributions of mathematics were mere afterthoughts, or part of a surprisingly diverse context. A journey into the great authors in their own words can be enlightening, inspiring, and offer wonderful bits to enrich the classroom.

Tom Carson's first teaching experience was teaching guitar while an undergraduate student studying electrical engineering. That experience helped him to realize that his true gift and passion teaching. He went on to earn his M.A.T. in mathematics at the University of South Carolina. From 1991 to 2003, Tom taught at Midlands Technical College where he was honored with a NISOD Excellence in Teaching award and a Who's Who among American Teachers award. In 2003, he left teaching to pursue writing full time. After moving his family to Franklin, Tennessee in 2006, he returned to teaching and now teaches part time at Columbia State Community College and at Franklin Classical School.

Tom has authored textbooks such as *Prealgebra*, *Elementary Algebra*, *Intermediate Algebra*, and *Developmental Mathematics* all published by Pearson.

On a personal note, he and his wife, Laura, have two children, Ian (20), and Lindsey (18). He is a health and fitness nut and, when he can find time, he enjoys golf and tennis. But his primary "hobby" is playing guitar around the Nashville area with his band, The Nixon Administration.

6:00 Dinner

7:30 - ?? "After Math" Ignite Session

Grayson Room

Presider: Pat Riley, Hopkinsville Community College

Check out the ignite session. Those who did not want to present a full session but have an idea or issue they wish to share and session presenters have the opportunity to summarize their presentations. They have exactly 5 minutes in a fast paced, whirlwind, idea sharing session. This session will last as long as there are presenters.

8:00 – ?? "After Math" Reception

Grayson Room

Come join us for light and lively conversation, food and drinks. Play some games, catch-up with friends, and network with colleagues and vendors.

7:00 AM Breakfast Dining Room

8:00 – ?? **Registration**

8:00 – 8:50 Concurrent Session #4

Grayson Room

Moderator: Dr. Brit Kirwan

Presider: Brandon Bartley, Jefferson Community and Technical College

Panel: Paul Blankenship, KCTCS; Karen Heavin, KYSU; Byron Pennycuff, SKCTC

Panel Discussion

This session will be a moderated panel discussion on the promising potential of the co-curricular development education model. The discussion will include both a statewide perspective and concrete examples of successful implementation strategies.

Breckinridge Room

Presenter: Connie Booker - Owensboro Community and Technical College Presider: Jeff Herrin, Bluegrass Community and Technical College

Boot Camp to Co-Requisite

Math boot camps have been used at OCTC for many years. Based on the success of these camps, OCTC has implemented a corequisite model for face-to-face and online MAT126 and MAT146 eliminating the need for MAT65 and MAT85. Camp curriculum has been imbedded in the first three weeks of class allowing students to master needed material. At the end of the third week students are given the KYOTE and then begin the core course they are enrolled in or move to the next course if their scores are high enough. The design of these courses as well as data from our first semester will be presented.

Terrace Room

Presenter: Dwight P. Smith - Big Sandy Community and Technical College

Presider: Scott McClendon, Somerset Community College

Dr. Strangelog or: How I Learned to Stop Worrying and Love the Slide Rule

All of us have taught MAT 150 and attempted to have our students love (?) the beauty of logarithms. With the advent of calculators, logarithms have lost much of their original purpose. For most of our students, logarithms are just something to plug into a calculator.

Logarithms have a fascinating history. They were invented to simplify calculations – namely to convert multiplication/division to addition/subtraction. In this talk, I plan to discuss how logarithms were calculated before the advent of the calculator. Specifically, I will show how logarithms were defined and calculated by Napier and Briggs.

Finally, I will show the attendees a slide rule and how it works. (The younger ones probably have never seen one used!)

9:00 – 9:50 Concurrent Session #5

Grayson Room

Presenter: Jeff Herrin - Bluegrass Community and Technical College

Presider: Pat Riley, Hopkinsville Community College

Progressive Applications Appropriate for the Tech Math Classroom

The presenter will offer some real-world progressive applications for functions with multiple variables. We will discuss features of progressive applications and share applications appropriate for use in a technical or liberal arts math course.

Breckinridge Room

Presenter: Roger Osborne - Somerset Community College Presider: Scott McClendon, Somerset Community College

Co-Requisite Math at Somerset Community College

With SCC transitioning to the co-requisite model of math instruction, changes are happening. MAT 055 and MAT 085 will no longer be offered. Students will be able to register for credit-bearing math courses with supplemental courses without being required to complete most transitional math courses. SCC has enacted this possibility the last few semesters with MAT 096 as the supplemental course for MAT 105/110/116. We've expanded this in Spring 2017 with MAT100 and MAT150. Please join us as we look at these changes and how they impact math advising and the mathematical careers of our students.

Terrace Room

Presenter: Barbara Elzey, Kausha Mille r- Bluegrass Community and Technical College

Presider: Brandon Bartley, Jefferson Community and Technical College

The KCTCS Online Initiative: What are its implications and what can we do?

An informal discussion of the implications of the KCTCS Online Initiative to the sixteen community colleges, a presentation of what BCTC has already done, and further discussion on what we, as faculty, can do further to increase our input.

10:00-10:50 Concurrent Session #6

Terrace Room

Presenter: Jon Oaks, Macomb Community College - AMATYC Midwest Regional Vice-President

Presider: Scott McClendon, Somerset Community College

Best Practices for Online Homework

Love it or hate it, many of us are now using online homework in our classes. In this session the presenter will attempt to answer concerns such as, 'how long should each assignment be,' 'when should each assignment be due,' 'what help options should be available for the students,' 'what to do about answering homework questions when every student has different algorithmically generated values,' and 'how to address technology gaps.'

10:50-11:15

Terrace Room

Presenter: Sally Jackman - Hopkinsville Community College Presider: Scott McClendon, Somerset Community College

Activities for Online or Classroom

Enhancement to in person and online sections of a Technical Algebra and Trigonometry course using worksheets and activities have assisted students in not only learning the material but applying math to everyday use. Materials can be adapted to be used in any 055 - 150 level math course.

10:00 - 11:15 Concurrent Session #7

Grayson Room

Presenter: Arthur Schultz, Sherry McCormack & Pat Riley - Hopkinsville Community College

Presider: Brandon Bartley, Jefferson Community and Technical College

Statistics Fun in the Classroom

Looking for something fun that allows your students to have fun while learning the material? Come by and see firsthand some of the projects and activities that have helped our students apply what they've learned and in some cases, allow them to discover the material that you want to learn. We will share our ideas and actually complete at least 3 of these during the workshop, including: Am I getting cheated?, Barbie Bungee Drop, Nerf Gun ???

Breckinridge Room

Conveners : Jennifer Ackerman - Jefferson Community and Technical College; Kausha Miller - Bluegrass Community and Technical College

Presider: Jeff Herrin, Bluegrass Community and Technical College

KYMATYC Political Action Committee

Over the last few years, there have been tremendous changes in higher education. While there is a need for leadership and changes, some colleges feel they had little or no input into different changes before they became edicts. Thus was born the idea that there is a need for all of us affected by many of these changes, those of us in the classroom, to have some say in these changes before they become edicts.

At KYMATYC's last business meeting, the group agreed to start work on a Political Action Committee whose task is to work towards the members of KYMATYC having some influence over policy changes in the early stages of development. In an effort to become more proactive and less reactive to change, this committee hopes to give educators a voice in the process of improving education in Kentucky by having an advisory role for our state legislators and department of education. KYMATYC is convening this meeting to determine if there is enough interest to launch a KYMATYC Political Action Committee in Kentucky.

11:15 -11:45 Break Enjoy some snack food and conversation

12:00 Business Meeting with Election Grayson Room

Kentucky Mathematical Association of Two-Year Colleges Executive Board 2016-2018

Scott McClendon President

Somerset Community College

Brandon Bartley President-Elect

Jefferson Community and Technical College

Robin Davis Secretary-Treasurer

Bluegrass Community and Technical College

Jeff Herrin Member-At-Large—Elected

Bluegrass Community and Technical College

Linh Changaris Member-At-Large—Appointed

Jefferson Community and Technical College

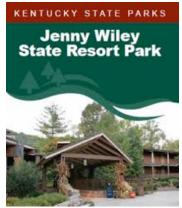
Pat Riley Past-President

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Amanda Spencer-Barnes Technology Officer

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