

**48<sup>th</sup> Annual Meeting**  
**Historic Boone Tavern**  
**Berea, KY**  
**Friday, February 25<sup>th</sup> &**  
**Saturday, February 26<sup>th</sup>, 2022**  
*All times are local time (Eastern Time)*

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# Forty-Eighth Annual Meeting of KYMATYC

## Conference Agenda

### Friday, February 25<sup>th</sup>, 2022

*All times are local time (Eastern Time)*

**12:00 - ?? PM                      Registration**

**1:00 - 1:50    Concurrent Session #1**

#### Event Center

*Presenter: Kausha Miller – Bluegrass CTC*

*Presenter: Jeff Herrin – Bluegrass CTC*

#### **Student Success Initiatives at BCTC**

A brief overview of various Student Success Initiatives occurring at Bluegrass CTC and then an opportunity to hear what's happening at other institutions. Bring descriptions, data or just some highlights from your own schools to share!

#### Coyle Gathering Room

*Presenter: Brandon Bartley – Jefferson CTC*

*Presenter: Brandon Bartley – Jefferson CTC*

#### **Technology That Helped Me Survive Covid**

We all had to adapt due to Covid, especially in course delivery methods and use of technology. In this session I will demonstrate how I used different devices (Wacom pen-pad, Wacom tablet, touch screen, etc.) initially to hold entirely virtual classes but now apply to all of my courses regardless of mode of delivery. There will be time at the end of the session for anyone that wants to try the devices I bring with me. Hand sanitizer will be provided!

#### Skylight Room

*Presenter: David Williamson – Pearson*

*Presenter: Brandon Elmes – Jefferson CTC*

#### **Quality and Insights in Higher Education (Corporate Partner Presentation)**

**2:00 - 2:50    Concurrent Session #2**

#### Event Center

*Presenter: Jon Oaks – Macomb Community College*

*Presenter: Jeff Herrin – Bluegrass CTC*

#### **Techniques for Self-Regulated Learning**

In this presentation, the presenter will share techniques he has used in his computer-based, lecture, and online classes to help promote self-regulated learning in his students. These techniques include requiring students to take a specific path to complete the course material, as well as mastery-based quizzing.

#### Coyle Gathering Room

*Presenter: Kathryn Schaefer – Hawkes Learning*

*Presenter: Angela Huddleston – Bluegrass CTC*

#### **Elements for Successful Courses in the Digital Age (Corporate Partner Presentation)**

With an increasing mix of online, hybrid & in-person course offerings, students are learning differently than ever before. As a result, they require a unique set of resources that not only meet their general course needs but also give them the necessary support to thrive in the array of new learning environments that they may encounter. Join us as we break down the nine elements that instructors can implement to help meet students' needs in modern classroom setups. We will explore how factors such as equity, scalability and engagement play a role in supporting students as they learn, ensuring positive outcomes in any course structure. Learn new ways to connect with your students, facilitate active participation, prioritize accessibility, and more. Attend and be entered to win one of three \$25 Amazon Gift Cards!

*Concurrent Session #2 continued next page*

**2:00 - 2:50    Concurrent Session #2 (continued)**


### Skylight Room

*Presenter: Brandon Elmes – Jefferson CTC*

*Presenter: Brandon Elmes – Jefferson CTC*

#### **OneNote for Hybrid or Online Courses**

The session will show participants how to sync OneNote to your LMS to provide a spot for students to submit work for hybrid or online courses. You can create a Collaboration Space for all students to use as well as individual student notebooks where they can submit written work for Quizzes, Tests, Activities, etc. OneNote can also be used as a virtual whiteboard for delivering lectures.

**3:00-3:30 Break Visit Exhibitor's Tables and enjoy snacks and refreshments courtesy of  Pearson !**

**3:30-4:20 Concurrent Session #3**

### Event Center

*Presenter: Charles Warburton – Gateway CTC*

*Presenter: Angela Huddleston – Bluegrass CTC*

#### **Passion Driven Statistics**

In this session the presenter will share information about the NSF funded project Passion Driven Statistics (PDS). Passion Driven Statistics looks to transform the Introductory Level Statistics class from lecture based into a project-based course. Participants will leave with the presentation with resources for those looking to explore the PDS model. Additionally, participants will learn about future paid professional development opportunities for faculty looking into implementing PDS into their classrooms.

### Coyle Gathering Room

**3:30-3:55**

*Presenter: Sherry McCormack – Hopkinsville CC*

*Presenter: Sherry McCormack – Hopkinsville CC*

#### **Technology Tools and Tricks**

Learn how to make your online content more professional (and fun) by creating and adding thumbnail images to YouTube videos, add creative images to Blackboard messages, make memes and gifs, use Demos, and other fun tools.

**3:55-4:20**

*Presenter: Jeff Herrin – Bluegrass CTC*

*Presenter: Jeff Herrin – Bluegrass CTC*

#### **BCTC's Math Blackboard Ultra UberShell**

BCTC Mathematics and Statistics division created a generic Blackboard Ultra shell that was used for our class coordinator shells. Come see how we organized modules and sections, including instruction pages and room for individual instructors to add individualized videos or documents. We can share the export file if you bring a USB drive.

### Skylight Room

*Presenter: Pamela Connors – Bluegrass CTC*

*Presenter: Brandon Bartley – Jefferson CTC*

#### **BCTC's Spotlight Instruction Series: A year in review**

In the spring of 2021, BCTC launched a pilot for a new student success initiative, the Spotlight Instruction Series (SIS). Find out what SIS is, its structure, and see examples of session activities. After a year of implementation, hear what we have learned, and where we are going.

**4:20 – 4:30 Small Break Visit Exhibitor's Tables.**

**4:30 – 4:45 KYMATYC WELCOME – Door Prizes in the Coyle Gathering Room shortly before Keynote.**

**4:45 – 5:45 Keynote Address.**

### Coyle Gathering Room

*Presenter: Luke Walsh – Catawba Valley Community College*

*Presenter: Jeff Herrin – Bluegrass CTC*

#### **Over or Under: How do you divide?**

There exists a wide range of notations and words to represent division. How does our choice of symbols and language impact people in understanding the actions centered around this operation? Let's chat about when are we embracing and when we are avoiding the uses of division that occur within and outside the community of mathematics.

Luke Walsh graduated from Indiana University in 2000 and then began teaching 8th grade mathematics in North Carolina. After five years in the public education system, he took a break to hike the Appalachian Trail. In 2007, Luke earned a master's

in mathematics from Appalachian State University, and since then he has been a full-time mathematics instructor at Catawba Valley Community College (CVCC). Luke loves to collaborate with other teachers, to eat BBQ and drink craft beer, to create graphs on Desmos, to spend time outdoors, and to go on family road trips.

**6:00 Dinner** Event Center (*Prior Purchase Required*)  
Cash bar available

**7:00 Ignite Session** Event Center  
*Presenter: 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.

**Immediately following Ignite – ?? “After Math” Reception** - Event Center  
Come join us for light and lively conversation, food and drinks. Play some games, catch-up with friends, and network with colleagues and vendors.

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## Saturday, February 26<sup>th</sup>, 2022

*All times are local time (Eastern Time)*

**7:00 AM Breakfast** Event Center (*Prior purchase required*)

**8:00 – ?? Registration**

**8:30 – 9:20 Concurrent Session #4**

Event Center

**8:30-8:55**

*Presenter: Eileen Walter – Gateway CTC*

*Presenter: Sherry McCormack – Hopkinsville CC*

**How will I ever teach this??? MAT 205/206: Overcoming Student Fears**

Students so often are terrified by the idea of becoming an elementary school teacher and being expected to teach their students concepts that they are uncomfortable with themselves. I want to share ideas that make the students think outside their own bubble to empower them to be successful in the classroom. While MAT 205 and MAT 206 are not methods classes, they allow us the opportunity to not only teach the material in the course objectives but encourage the students to see a way to teach the material and make it something that evokes positive results in your classroom and theirs.

**9:05-10:20**

*Presenter: Drew Wilkerson – Jefferson CTC*

*Presenter: Sherry McCormack – Hopkinsville CC*

**Lights, Camera, Math!** (*note: overlaps with Concurrent Session #5*)

Hobbits, elves, and wizards with the one ring. Journeys through space to explore new worlds. Velociraptors fighting T-Rex. We all love the magic of movies, but it really must be magic, because the science and math don't add up. In this session, we take a critical look at plots and scenes from some of Hollywood's biggest hits. What seems farfetched becomes even more so when you look at the real math and science behind it.

Coyle Gathering Room

*Presenter: Audrey Brock – Bluegrass CTC*

*Presenter: Brandon Elmes – Jefferson CTC*

**Multidisciplinary Involvement in a Google Computer Science Education Research Grant**

In this presentation I'll talk about a Google Computer Science Education Research (CS-ER) grant that BCTC received for the current school year. Our grant is called, "What Under-Represented Minority and Female High School Students Know (and Don't Know) about Computer Science Careers." My goal is to share the cool work we're doing, potentially inspire you to apply for a Google CS-ER or other grant, highlight the benefits of involving faculty from multiple disciplines, and discuss the administrative logistics that go on behind the scenes of a grant.

*Concurrent Session #4 continued next page*

**8:30 – 9:20 Concurrent Session #4 (continued)**

Skylight Room

*Presenter: Hunter Chandler – Bluegrass CTC*

*Presenter: Brandon Bartley – Jefferson CTC*

**Building Student Engagement with Desmos across Course Modalities**

Have you seen a decline in student engagement? Are you tired of talking to a blank space in your online course meetings? Desmos Teacher may be a solution for you! Desmos is more than a free graphing or scientific calculator—Desmos technology has grown into a student engagement platform! In this workshop, you will discover the potential of Desmos Teacher on student engagement through an interactive lesson. Bring your laptops to follow along and learn how to incorporate Desmos Teacher into your teaching. We will explore how to create a free account, how to access starter slides, how to build slides, how to incorporate assessments, and briefly cover Demos' Computation Layer as a scripting language.

**9:30 – 10:20 Concurrent Session #5**

Event Center (Continued from 9:05)

*Presenter: Drew Wilkerson – Jefferson CTC*

*Presenter: Sherry McCormack – Hopkinsville CC*

**Lights, Camera, Math!**

Hobbits, elves, and wizards with the one ring. Journeys through space to explore new worlds. Velociraptors fighting T-Rex. We all love the magic of movies, but it really must be magic, because the science and math don't add up. In this session, we take a critical look at plots and scenes from some of Hollywood's biggest hits. What seems farfetched becomes even more so when you look at the real math and science behind it.

Coyle Gathering Room

*Presenter: Jennifer Ackerman – Jefferson CTC*

*Presenter: Angela Huddleston – Bluegrass CTC*

**Exploring Alternative Assessments**

Assessing student understanding can leave you with more questions than answers. Come explore some ideas and resources for developing alternative assessments. Share what you've been doing and discuss the benefits and challenges you've encountered along the way.

Skylight Room

*Presenter: Scott McClendon – Somerset CC*

*Presenter: Brandon Bartley – Jefferson CTC*

**Content Creation with Open Broadcast Software**

Join for a discussion about creating media content for class or demonstration using a popular free app called OBS. Open Broadcast Software (OBS) is a free open-source software for video recording and live streaming. It's known for being able to create simple screen recordings or sophisticated videos by capturing multiple sources at once such as window captures, images, text, browser windows, webcams, capture cards, and more. It can also create a virtual camera for use in online meeting apps like Zoom, Teams and Blackboard Collaborate.

**10:20 – 10:45 Checkout/Break**

**10:45 - 11:35 Concurrent Session #6**

Event Center

*Presenter: Pat Riley – Hopkinsville CC*

*Presenter: Brandon Elmes – Jefferson CTC*

**Analyzing the Fire Drill from The Office**

One of the iconic scenes from the TV show "The Office" centers around a fake fire drill. This talk will use Newton's Law of Heating/Cooling to analyze the timeline and math behind the door handle heating portion of the drill. Participants will be asked to work together to collect information and then make calculation estimates to determine the feasibility of the plan.

*Concurrent Session #6 continued next page*

**10:45 - 11:35 Concurrent Session #6 (continued)**

Coyle Gathering Room

*Presenter: Dwight Smith – Big Sandy CTC*

*Presenter: Jeff Herrin - Bluegrass CTC*

**Polynomial Equations; or Fun with Academic Politics**

One of the most famous problems in the history of mathematics is solving polynomial equations. We all know about the Quadratic Formula. There is a Cubic Formula, which has a discriminant like the Quadratic Equation does, describing the nature of its roots. It turns out that there is a Quartic Formula for solving fourth-degree polynomials! It was eventually proven that there is no general formula for higher-degree polynomial equations. In this talk, I will discuss these topics and the fascinating human interest stories they involve. And academic politics, which we all know and love, played an amusing part!

Skylight Room

*Presenter: Angela Huddleston – Bluegrass CTC*

*Presenter: Angela Huddleston – Bluegrass CTC*

**Creating Custom Banners for Ultra Course Shells**

Want to add color and character to your course shell? Using banners as headers in your course creates an organized course for students to have a better experience following your directions. This session will cover easy ways to create ADA compliant custom banner images to personalize your Blackboard Ultra course shell.

**11:45-12:00 Break/Snacks      Enjoy some snack food and conversation in the Event Center!**

**12:00      Business Meeting      -      Event Center**

**Notes:**

