2024 OhioMATYC Annual Conference – Stark State Community College - April 12, 2024

Conference Schedule

Time Slot	Session A (B100)	Session B (B102)	Session C (B106)	Session D (B108)
9:00 – 10:00am	**Registration & Refreshments (M100)**			
10:00 – 10:50am ***(50 min)***	01) The Magic of Desmos **Nick Hardin** Columbus State Community College	02) Making Group Work Work **Heather Bubnick** Lorain County Community College	03) From Slide Rules to Virtual Reality **Nancy Satler** Terra State Community College and Walden University	04) Using ALEKS in Liberal Arts Math **Julie Broich & Megan Eader** McGraw Hill
11:00 – 11:50am ***(50 min)***	05) Aktiv Math: Readiness and Productive Practice **Andrew Noble** *Top Hat*	06) MyLab Math Meets AI and Innovative Learning Experiences **Erin Kelly & David Fields** *Pearson*	07) Promoting Equity in Education Through Mastery Learning **Tony Stratis** *Hawkes Learning*	08) OER with XYZ Homework **John Kunkel & Daniel Breuer** XYZ Homework
12:00 – 1:30pm	**Lunch (M100) and OhioMATYC Business Meeting (M101)**			
1:30 – 2:20pm ***(50 min)***	09) Catalan Numbers – The Most Important Sequence Almost No-One has Ever Heard of *(90-minute workshop: 1:30-3:00pm)* **Carl Sieke** *Institute for Learning in Retirement - East*	10) Raising the Bar with Live Online Learning Sessions **Julie Hallas** Columbus State Community College	12) OER and You: What's Out There, Where Can it be Found, and What Does it Mean? **Sarah Long** Terra State Community College	
2:30 – 2:50pm ***(20 min)***		11) Why Use Learning Maps as a Teaching Tool? **Khadija Khazafi** Stark State College	13) XYZ Textbooks and XYZ Homework **Bruce Spears & Daniel Breuer** XYZ Homework	

3:00 – 3:50pm ***(50 min)***	14) Empowering Hyflex Learning: Harnessing the Potential of Desmos Classroom for Effective Dual-Mode Instruction **Charles Warburton** University of Cincinnati – Clermont College	15) Pi and Probability: The Series **Troy A. Clark, Ph.D.** Ursuline College	16) Increasing Rigor **Ryan Chan** Columbus State Community College	
4:00 – 4:30pm ***(30 min)***	**Open Form: Discussing the Format of Future Conferences Moderated by the OhioMATYC Board (B100)**			
4:30 – 4:40pm	**Announcements, Closing Remarks, and Thank you!**			

List of Talks & Abstracts

(Order as in the conference schedule)

01. Nick Hardin

Columbus State Community College

Email: nhardin3@cscc.edu

Title: The Magic of Desmos

Abstract: In this session we will explore the amazing and free online software Desmos. This is a program that can truly change your teaching! We will take a deep dive into this graphing utility as well as classroom activities for both math and stats.

02. Heather Bubnick

Lorain County Community College

Email: hbubnick@lorainccc.edu

Title: Making Group Work Work

Abstract: Getting students to work in groups is not easy! I found the small details can make a big difference. I will share what I have learned along my journey and ask you to share what has worked for you.

03. Nancy Satler

Terra State Community College and Walden University

Email: Nsattler@terra.edu

Title: From Slide Rules to Virtual Reality

Abstract: Faculty have progressed from using Technology 1.0 (slide rules) to 2.0 (calculators) to 2.5 (graphing calculators) to 3.0 (wolfram alpha) to 3.5 (Photomath) to 4.0 (Virtual reality and AI). Learn how to use the appropriate tools strategically and engage your students using the latest technology.

04. Julie Broich and Megan Eader

McGraw Hill

Email: Julie.Broich@mheducation.com

Title: Using ALEKS in Liberal Arts Math

Abstract: Learn how ALEKS can support your students with foundational topics needed to be successful in a Liberal Arts or Quantitative Reasoning course. See the various types of problems and exercise sets that can be assigned in a traditional way. This presentation will show how ALEKS can support topics required in the OT 36 for QR classes.

05. Andrew Noble

Top Hat

Email: andrew.noble@tophat.com

Title: Aktiv Math: Readiness and Productive Practice

Abstract: Aktiv Mathematics aims to make homework a more positive and productive experience by helping students discover each step toward solving is just as important as the solution itself. Join this session to learn what we are doing to change homework and solve the Math Readiness Gap.

06. Erin Kelly and David Fields

Pearson

Email: erin.kelly@pearson.com

Title: MyLab Math Meets AI and Innovative Learning Experiences

Abstract: Join Pearson's Director of Math & Statistics Marketing, Erin Kelly, to learn about the role AI will play in the future of MyLab Math and explore a new interactive learning experience in development. Participate in a discussion around challenges like student engagement and skill gaps to directly impact the MyLab Math roadmap.

07. Tony Stratis

Hawkes Learning

Email: astratis@hawkeslearning.com

Title: Experiences Promoting Equity in Education Through Mastery Learning

Abstract: Maximize student potential with integrated review titles that offer diagnostics, targeted remediation, powerful learning aids and real-world applications. Gain insights into ways that this innovative approach empowers students to succeed and supports equity among incoming students. **Win one of THREE $25 Gift Cards!**

08. John Kunkel and Daniel Breuer

XYZ Homework

Email: john.kunkel@xyzhomework.com, daniel@xyzhomework.com

Title: OER with XYZ Homework

Abstract: If your department is exploring OER options, XYZ Homework is an excellent choice for a partner. We help make OER better with print, custom question coding and professional support. We support OpenStax and other OER courses from Prealgebra through Calculus, including Statistics, Differential Equations, and Linear Algebra. These courses are ready to go, and we are available to help customize the eBooks and templates. The XYZ OER Pass is only $45 for three years of unlimited OER courses. We also have many XYZ Textbooks options, including custom textbooks for Rhodes State College.

09. Carl Sieke

Institute for Learning in Retirement - East

Email: pje188@comcast.net

Title: Catalan Numbers – The Most Important Sequence Almost No-One has Ever Heard of

Abstract: The Catalan numbers form a very important sequence in combinatorics, the mathematics of counting things. There are so many mathematical scenarios that seem to have nothing to do with each other, but are all counted by these fascinating numbers!

10. Julie Hallas

Columbus State Community College

Email: jhallas1@cscc.edu

Title: Raising the Bar with Live Online Learning Sessions

Abstract: Our online math student has changed… and so should our delivery methods and strategies! Learn how careful planning can make synchronous online sessions meaningful by including group work. Demonstration of online group work will be included in this presentation.

11. Khadijia Khazafi

Stark State College

Email: kkhazafi@starkstate.edu

Title: Why Use Learning Maps as a Teaching Tool?

Abstract: Maps are all around us. They help us navigate from Point A to Point B. In a similar way, we will explore in this presentation how incorporating a learning map, that highlights the big ideas, has the potential to generate many different types of connections for the students.

12. Sarah Long

Terra State Community College

Email: slong10@terra.edu

Title: OER and You: What's Out There, Where Can it be Found, and What Does it Mean?

Abstract: OER's (Open Educational Resource) are increasingly talked about, but not everyone knows what that means! I'll take you on a journey, starting with tips on how to search out materials from text books to entire courses, passing through online software systems that are zero (MyOpenMath) to little (XYZ Homework) cost to the student, and ending up at deciphering copywrite codes. You'll take away a list of resources, a brief understanding about copywrite, and a connection to others who can help support you on your OER journey.

13. Bruce Spears and Daniel Breuer

XYZ Homework

Email: bruce@xyztextbooks.com, daniel@xyzhomework.com

Title: XYZ Textbooks and XYZ Homework

Abstract: If your department is exploring lower cost textbook options, XYZ Homework is an excellent choice for a partner. We support all XYZ Textbook titles from Arithmetic through Applied Calculus. The XYZ Homework templates are plug and play or we can help you customize them to your specifications. The XYZ Homework templates offer direct links to XYZ Textbooks high quality videos and eBooks. We also offer printed textbooks which include an All Access Pass in the front cover at no additional cost. The stand-alone All Access Pass is only $45 for digital access to our eBooks, videos, worksheets and XYZ Homework. We have many custom XYZ Textbooks options, including custom textbooks we have developed with Rhodes State College. XYZ Textbooks also supports all OpenStax mathematics books and other OER options.

14. Charles Warburton

University of Cincinnati – Claremont College

Email: charles.warburton@uc.edu

Title: Empowering HyFlex Learning: Harnessing the Potential of Demos Classroom for Effective Dual-Mode Instruction

Abstract: The need for flexible instructional models is more important than ever. The hyflex classroom, which integrates in-person and online learning experiences, has emerged as a viable solution. This session will demonstrate the effective implementation of Desmos Classroom, an online graphing calculator and digital learning platform, in a hyflex learning environment.

15. Troy A. Clark, Ph.D. Ursuline College

Email: troy.clark@ursuline.edu

Title: Pi and Probability: The Series

Abstract: Every math person with a calculus background have seen a myriad of series involving pi. But did you know that pi has an interesting relationship with probability and number theory? In this talk, we will discuss this relationship and how series can help unlock further mysteries in mathematics.

16. Ryan Chan Columbus State Community College

Email: rchan2@cscc.edu

Title: Increasing Rigor

Abstract: Purpose of this session is to help faculty create and use different types of assessments to help students communicate and explain their reasoning.