

26th Annual WisMATYC Conference Northcentral TC (Wausau)

The Conference Center is in the NTC Center for Health Sciences Building. There is free parking in Lot B.

To register for the conference, go to <https://ntcforms.formstack.com/forms/wismatyc>.

8:00 – 9:00		Registration, Networking, Exhibits		Conference Center Atrium	
<p>The registration fee of \$30 (cash or check) will be collected at check-in. \$30 includes the conference, an annual WisMATYC membership, and food (coffee, light breakfast, lunch, and snacks). After check-in, enjoy coffee and light breakfast items, network with colleagues, and visit our exhibitors.</p> <p>Thank you to Cengage, Derivita, FlatWorld, and Hawkes Learning for exhibiting this year!</p>					
9:00 – 9:50	Conf Center (Room 1004 AB) <i>Michael Caparula</i> <i>Kankakee CC (IL)</i> From High School to College – Transitional Math	Room CHS 2014 <i>Anna Cox</i> <i>Kellogg CC (MI)</i> You Want Me to Do What? The Write-a-Test Assignment	Room CHS 2019 Commercial Presentation <i>Jackie Moncure, Hawkes</i> Redefining the Curriculum through Personalized Learning		
10:00 – 10:50	Conf Center (Room 1004 AB) <i>Leah Rineck and Hayley Nathan</i> <i>UW Milwaukee</i> Creating a Course Using Backwards Design	Room CHS 2014 <i>Kevin Hulke</i> <i>Chippewa Valley TC</i> Shortening the Pipe and Fixing the Leaks on the Algebra Track	Room CHS 2019 Commercial Presentation <i>Dale Dawes, Cengage</i> Leveraging WebAssign to Facilitate Self-Directed Learning and Student Engagement		
11:00 – 11:30	Conference Center (Room 1004 AB) WisMATYC Annual Meeting				
11:30 – 12:30	Conference Center Atrium: Lunch, Networking, Exhibits				
12:30 – 1:20	Conf Center (Room 1004 AB) <i>Keith Nabb</i> <i>UW River Falls</i> Origami: So much more than the paper crane!	Room CHS 2014 <i>Lori Jones</i> <i>EDD and Kishwaukee CC (IL)</i> Global Infusion through Statistics with Gapminder	Room CHS 2019 Commercial Presentation <i>Devlin Daley, Derivita</i> Introducing Derivita, a modern math homework system that maps to any textbook		
1:30 – 1:55	Conf Center (Room 1004 AB) <i>Al Lehnen</i> <i>Madison Area TC</i> The Intersection of a Plane with a Right Circular Cylinder	Room CHS 2014 <i>Lori Grady</i> <i>UW Whitewater</i> Bamboo Tablet Use for Teaching Math	Room CHS 2019 <i>Mike LaFratta</i> <i>Milwaukee Area TC</i> Contextualization and Story Telling		
2:00 – 2:25	Conf Center (Room 1004 AB) <i>Amanuel Teweldemedhin</i> <i>UW Milwaukee – Waukesha</i> Students Store by Similarities and Retrieve by Differences; a Personal Perspective	Room CHS 2014 <i>Wufeng Tian</i> <i>UW Eau Claire – Barron County</i> Undergraduate Research Projects and Opportunities at Two-Year Colleges			
2:30 – 2:55	Conf Center (Room 1004 AB) <i>Paul Martin</i> <i>UW Stevens Point at Wausau</i> Approximations of Pi, from Archimedes to the Present	Room CHS 2014 <i>Rachel Johnson</i> <i>Northeast Wisconsin TC</i> OER and Textbook Affordability			
3:00 – 4:00	Conference Center Atrium: Raffle! Snacks! Exhibits! Networking! MKE 2019!				

From High School to College – Transitional Math

9:00 – 9:50 Conference Center (Room 1004 AB)

Michael Caparula, Kankakee Community College (IL)

Getting students into college-level math – a look at the mandated high school transitional math initiative in the state of Illinois. Discussed will be the basics of the legislation and how high schools and colleges are working together to create these project-based math courses for high school seniors.

You Want Me to Do What? The Write-a-Test Assignment

9:00 – 9:50 Room CHS 2014

Anna Cox, Kellogg Community College (MI)

In my calculus courses and sometimes in college algebra, students write a test, make an answer key, and learn how to learn. Many interesting comments have been made from students over the years with this assignment. I will share their reactions and how this assignment has changed study behaviors in my students. My assignment will be shared and hopefully you can help me brainstorm to make it even better! This is a great assignment that allows students to get valuable experience on the work involved in writing a truly great test.

Redefining the Curriculum through Personalized Learning

9:00 – 9:50 Room CHS 2019

Jackie Moncure, Hawkes Learning (Commercial Presentation)

Discover how to create a diagnostic assessment that identifies mastery of learning objectives and areas where students struggle. Learn how these tests help build a personalized learning environment that tailors remediation for individual students. Explore new titles that accelerate developmental curriculum and prep for credit-level programs. Win a gift card!

Creating a Course Using Backwards Design

10:00 – 10:50 Conference Center (Room 1004AB)

Leah Rineck and Hayley Nathan, UW Milwaukee

We will be describing the fundamentals of creating a course by backwards design. We will discuss how we have used backwards design in creating our courses and how participants can develop their own course using backwards design. Participants will have a chance to brainstorm ideas for their own courses and get a start on designing a unit.

Shortening the Pipe and Fixing the Leaks on the Algebra Track

10:00 – 10:50 Room CHS 2014

Kevin Hulke, Chippewa Valley TC

Education is expensive. The math pipe usually is Beginning, Intermediate, and College Algebra. then on to Calculus I. This college has just two classes in the sequence - the path is shorter. Student self-evaluation, commitment, and teacher help are plugging the gaps of unsuccessful students.

Leveraging WebAssign to Facilitate Self-Directed Learning and Student Engagement

10:00 – 10:50 Room CHS 2019

Dale Dawes, Borough of Manhattan Community College, Cengage (Commercial Presentation)

Using an Online Preparation and Rigorous Enrichment Platform (Online-PREP), such as WebAssign, to increase student engagement and promote student personal academic responsibility. WebAssign provides the instructor with flexibility to personalize (i.e., courses and assignments) and several robust resources that are underused. Efficiently leveraging these underused resources and flexibility can provide students with essential micro-level and macro-level feedback. The presenter will discuss how to effectively implement an Online-PREP to facilitate self-directed Learning and self-regulated learning.

Origami: So much more than the paper crane!

12:30 – 1:20 Conference Center (Room 1004 AB)

Keith Nabb, UW River Falls

The paper-folding art will be discussed from two perspectives: (1) fostering Geometric Habits of Mind with origamics (let's conjecture and prove) and (2) revolutionizing modern engineering (let's invent and build). Topics are suitable in Math for Elementary Education and Liberal Arts Mathematics.

Global Infusion through Statistics with Gapminder

12:30 – 1:20 Room CHS 2014

Lori Jones, EDD and Koshwaukee Community College (IL)

Pull up a current Statistics course on D2L, go to the gapminder discussion, and have the audience take the quiz, then look at various projects completed by students using gapminder data, and discuss in the direction of the audience's interest. Directions could include looking at more student projects and discussions, assessment techniques, and integrating technology.

Introducing Derivita, a modern math homework system that maps to any textbook

12:30 – 1:20 Room CHS 2019

Devlin Daley, Derivita (Commercial Presentation)

The math homework system is an integral part of student success in your class. However the available systems out there are expensive, use old technology, and don't ask the types of questions that allow for true comprehension. Now introducing Derivita, a math homework system that will finally have the types of questions that you'd love to have your students complete while still being auto-graded. It maps to any textbook (including OER) that you're already using and only costs students a fraction of what they're paying for other systems out there. Come and check out the special sauce of Derivita that will not only make your life easier, but produce better outcomes with your students. We'll also spend some time showing how Derivita can create types of math questions you've never seen done by an online system.

The Intersection of a Plane with a Right Circular Cylinder

1:30 – 1:55 Conference Center (Room 1004 AB)

Al Lehnen, Madison Area TC

Both synthetic and analytic arguments are given to show that the intersection of a plane with a cylinder is an ellipse. The analytic derivation is a nice and "remarkably clean" application of determining the eigenvalues and eigenvectors of a symmetric matrix.

Bamboo Tablet Use for Teaching Math

1:30 – 1:55 Room CHS 2014

Lori Grady, UW Whitewater

I would like to introduce my method of delivering math instruction utilizing the Bamboo tablet and Smart Notebook/WebEx. There are many folks in my department using a document camera to deliver their lectures in class. I find that the computer offers me more options for answering homework questions and bringing up multiple documents to work from. The Bamboo tablet is inexpensive and offers me the ability to write in Smart Notebook or WebEx whiteboard which is extremely helpful when it comes to writing math!

Contextualization and Story Telling

1:30 – 1:55 Room CHS 2019

Mike LaFratta, Milwaukee Area TC

Examples of contextualization, schematic scaffolding, and story telling in association with math concepts will be presented.

Students Store by Similarities and Retrieve by Differences; a Personal Perspective

2:00 – 2:25 Conference Center (Room 1004 AB)

Amanuel Teweldemedhin, UW Milwaukee – Waukesha

There is no general agreement on how students learn. It is important that we continue to explore new methods. We store by similarities and retrieve by differences. This talk will provide illustrative examples from Developmental Mathematics to Calculus level courses.

Undergraduate research projects and opportunities at two year colleges

2:00 – 2:25 Room CHS 2014

Wufeng Tian, UW Eau Claire – Barron County

Over the past year, I have supervised several undergraduate research projects, including Mathematical Modeling and its Application, Innovative Minds Partnering to Advance Curative Therapies (IMPACT) Program and Student Research League at UW-Eau Claire Barron County. I would like to share with everyone about these great opportunities and projects and how I conducted these projects and what we have accomplished.

Approximations of Pi, from Archimedes to the Present

2:30 – 2:55 Conference Center (Room 1004 AB)

Paul Martin, UW Stevens Point at Wausau

I would start with polygon perimeter methods for PI-approximation of Archimedes and some efficient enhancements. Then on to Arc-tangent methods and several lines of enhancements using complex numbers. The presentation is very visual with neat techniques that are accessible to Calculus and some even to College Algebra students.

OER and Textbook Affordability

2:30 – 2:55 Room CHS 2014

Rachel Johnson, Northeast Wisconsin TC

As the cost of textbooks rise and the variety of options increases each year for textbooks and online homework systems, there are a lot of things to consider when choosing or changing textbooks and other resources used in class. Come to have a discussion about options that are out there and what free or low cost options have worked for your school or that your school is looking into.

Win Raffle Items! Have Snacks! Visit Exhibitors! Do Networking! Join the MKE 2019 Team!

3:00 – 4:00 Conference Center Atrium

Grab some snacks and continue your conversations with exhibitors. Win raffle items in the drawing! Talk about possible activities for the hospitality room at the AMATYC Annual Conference in Milwaukee November 14-17. Network and socialize with your colleagues.

