

Wisconsin Mathematical Association of Two-Year Colleges

23rd Annual Conference

Saturday, September 24th, 2016

UW Sheboygan



Registrations are due Friday September 9.

Register by emailing Turi Suski at suski@fvtc.edu with your name and institution.

Detailed driving directions to UW Sheboygan can be found at <http://sheboygan.uwc.edu/about/overview/directions>. When you turn into campus, follow the signs to the West Parking Lot. Enter the building using the Main Entrance. Go through the second set of doors and up the main staircase. Go past the reception area, turn left at the arrow for Student Affairs, and go down the stairs. You will be in the Wombat Atrium. It's shorter than it sounds!

8:00 – 9:40 Registration (Wombat Atrium)

The \$30 conference registration payment will be collected at registration. Please bring exact cash or a check payable to WisMATYC. The registration includes all conference sessions, the conference meals, and your annual membership in WisMATYC. We cannot subdivide the conference registration.

Continental breakfast (Wombat Atrium)

Sweet rolls, muffins, bagels, fruit, orange juice, coffee

8:00 – 4:30 Exhibit (Wombat Atrium)

Please visit the Hawkes Learning table.

Session 1 8:30 – 9:30	Bridging the Technology Gap: Free Technology Tools for Math Jon Oaks, AMATYC Midwest Vice President Macomb Community College (MI)	Using Manipulatives and Formative Assessments to Enhance Student Understanding Leah Rineck UW Milwaukee
	Everyone uses technology in their everyday lives. However, there seems to be a gap in how students are using technology for personal and educational purposes. In this presentation, participants will learn about several free technology tools for math and some ideas for how to use these tools that might help bridge this gap. Wombat Room	This presentation will show different ways to use algebra tiles, Cuisenaire rods, and other manipulatives to enhance student understanding in a developmental course. We will also discuss different ways to incorporate quick formative assessments into the course to assess student comprehension. Room 3102

Session 2 9:40 – 10:40	<p>A Day in the Life of a Quantitative Literacy Course Kelly Kohlmetz UW Milwaukee</p> <p>Many institutions are considering a switch to a Quantitative Literacy course at the developmental level. What might this look like? This presentation will demonstrate a typical 30-minute lesson from the Math 092 class at UWM. The session will also include context before and debriefing after, with time for questions.</p> <p>Wombat Room</p>	<p>Bobo Numbers, Bobbers, and Bears – Experiences in Undergraduate Research Steve Kifowit, IMACC President-Elect Prairie State College (IL)</p> <p>Undergraduate research experiences are well known for their effects on student learning and engagement. The presenter has mentored community college students whose research has won awards and even been published. In this presentation, you will learn some things about Bobo numbers, falling ladders and floating bobbers, former Chicago Bears head coach Lovie Smith, and student research, in general.</p> <p>Room 3102</p>
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Session 3 10:50 – 11:50	<p>WisMATYC Annual Meeting/AMATYC Update</p> <p>In addition to our annual business meeting, we will provide updates about WisMATYC and discuss ways you can get involved. Led by your WisMATYC Executive Board (President Turi Suski, Treasurer Meg Onoda, Secretary Clare Hemenway, and Past President Brian Murphy)</p> <p>AMATYC Midwest Vice President Jon Oaks will present the AMATYC Update: AMATYC is the American Mathematical Association of Two-Year Colleges. Whether you have never heard of AMATYC or you have been involved with the organization for years, get your questions answered about what is new in the organization and how you can take advantage of the professional development opportunities that are offered by AMATYC throughout the year.</p> <p>Wombat Room</p>	
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11:50 – 12:40 Lunch (Wombat Atrium and Wombat Room)

Pick up pizza, salad, breadsticks, and soda in the Wombat Atrium and eat in the Wombat Room.

Session 4 12:40 – 1:40	<p>Motivating Students to Learn Infinite Series Robert Cappetta University of Illinois at Chicago</p> <p>In calculus, infinite series is an important topic. Why? This presentation will include ideas that may motivate students to want to better understand the topic. Historical development, mathematical connections, technology and applications will be discussed.</p> <p>Wombat Room</p>	<p>Student Difficulties with Absolute Value Equations and Inequalities: Working on Those Abs Paul McCombs, IMACC President Rock Valley College (IL)</p> <p>The results of an investigation of different methods used for solving absolute value equations and inequalities involving two College Algebra classes during the Fall 2015 will be described. Common student errors will be illustrated as well as the results of the comparison of the different methods. In addition, possible ways to assist students will be suggested.</p> <p>Room 3102</p>
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Session 5 1:50 – 2:50	<p>The Power of Graphing with Desmos Younis Zaidan UW Fox Valley</p> <p>The Desmos graphing calculator is a free online tool ideal for promoting inquiry, communication and generalization. We'll demonstrate dynamic activities involving linear/quadratic functions, conic sections, parametric equations, area under the curve, and much more.</p> <p>Wombat Room</p>	<p>Cocktail Party Calculus: Collaborative Writing in Mathematics Keith Nabb UW River Falls</p> <p>This session describes a project in which students wrote about a topic from calculus. A major goal was to provide students the experience of writing about mathematical concepts as a supplement to the standard mathematical experience. The project produced a "calculus manual" now being offered to incoming calculus students.</p> <p>Room 3102</p>
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2:50 – 3:20 **Pi Break and Socializing (Wombat Atrium)**
Enjoy a personal pie, or snack on chips with salsa and dip.
This is a great time to check out the Hawkes Learning table!

Session 6 3:20 – 3:50	<p>Project Trigonometry Rachelle Barr UW Rock County</p> <p>Get in touch with some real trigonometry projects for your class and see how it can change students' attitude toward the content.</p> <p>Wombat Room</p>	<p>Giving Developmental Math Students a Choice Kelly Kohlmetz UW Milwaukee</p> <p>UWM redesigned its entire developmental mathematics program to give students a choice: algebra or quantitative literacy. This session will describe how this was done, the benefits of each sequence and the amazing results so far. It will also discuss how the same experience is carried through the college-level.</p> <p>Room 3102</p>
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Session 7 4:00 – 4:30	<p>Counting Normal Networks Devin Bickner UW Sheboygan</p> <p>Normal networks are graphs used in evolutionary biology. We will discuss the results obtained from an undergraduate research project with a student about counting the number of networks with special properties. These results include actual counts, rough bounds, and some related results about the structure of the networks being studied.</p> <p>Wombat Room</p>	<p>Contextualized Math Trades 1 for Welding Rachel Johnson Northeast Wisconsin Technical College</p> <p>NWTC received a three year NSF ATE Grant which started in Fall 2014. One of the focuses of the grant was to integrate welding into Math Trades 1 using hands-on activities and industry related videos. Part of the grant includes an invitation to have representatives from WTCS colleges to come to NWTC in Spring 2017 for a workshop to learn more about the grant and obtain curriculum developed, so if this interests you, come learn about this opportunity.</p> <p>Room 3102</p>
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