

# **AMATYC Traveling Workshop at LaMsMATYC**

## **9am-10:45** Online Courses, Online Homework & the Technologies that make it Work!

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Two years ago, I decided to tackle teaching Calculus online. Now, Calculus is a difficult course to learn when you are in a traditional classroom. Move the course online, and not only is it hard, but there are a multitude of technical obstacles to overcome. How do you collect homework? How do students show work? How do you effectively communicate mathematical concepts on a text-based message board? How can you provide instruction so that students actually watch and listen? The journey to put Calculus online has taken taught me so much, and I'd like to make it easier for you. I'll show you a variety of technology that makes math really work online: WebAssign, Jing, Screencast, HTML, avatars, calculator emulators, WizIQ, Wolfram Demonstrations, and more. Not only is this course comparable to the face-to-face section, but the creation of it has completely changed what I do in my on-campus classes too. If you're planning to put a course of your own online, I can help you flatten the learning curve.

## **11:00-Noon** Instructor 2.0 & Organizing Your Digital Self

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The role of the instructor is changing – no longer the guardians of information, we are quickly becoming the facilitators of learning – however that learning takes place. The classroom is not our only stage these days, and to meet learning needs, we communicate by email, manage online homework, build websites and courses in learning management systems. However, all this “going digital” can be a bit overwhelming. How do you keep track of your links, files, blogs, email, and website materials? How do you go about organizing and sifting through the vast array of resources on the Internet and turning them into an easy-to-use and coherent set of learning materials for the classroom or online environment? Let me share some of my strategies for coping with the information overload and the new digital era.

## **1:00-3:00** Using the Internet to Spice Up Your Math Class (Interactive Workshop)

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If you don't think that the use of websites has any value in the math classroom, or you do, but can't figure out how to actually incorporate them, then let me help you become a technology user. What you learn in this workshop can be used in a traditional (web-enhanced) class, a hybrid class, or an online class.

**Why should I incorporate the Internet?** You can't even begin thinking about teaching with Internet technology until you first see an overview of what's available and are convinced that you need to be using it. So we start there with an “Oh Wow!” tour of what's out there on the Internet.

**Learn how to find good interactive websites to use in your classes.** This will include a discussion of the best “search” methods on the Internet, how to use them, and how to start quickly organizing what you find.

**Learn how to incorporate the sites you find into what you teach.** You can't just use these sites as an “add-on” to a traditional lecture – you probably already feel crunched for time *without* using technology. To add technology and do it well, we need to step back and rethink why we do certain things in class and how the ability to use technology can change the structure of class time.

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**(Bonus Session) 3:00-3:30** The Missing MathType Manual

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Many of us use an equation editor or MathType to make documents for our math classes. But do you *really* know how to use MathType? Maybe you do, but maybe you're missing something a few details that would've made your life so much easier ... if you had only known!

The LaMsMATYC Traveling Workshop will be conducted by Maria H. Andersen of Muskegon Community College. Maria is on the math faculty at Muskegon Community College and has a passion for helping other faculty learn how to “be dangerous” with technology and relate to the Internet generation. Maria's background includes degrees in Mathematics, Chemistry, Environmental Biology, and Business, and Higher Education Leadership (ABD). She teaches a wide variety of classes, from Beginning Algebra through Calculus II, including Math for Elementary Teachers and sometimes, Intro Chemistry. She teaches traditional, web-enhanced, hybrid, and online classes. Maria is also a consultant for various educational companies, runs a website to help math instructors develop professionally and keep up with technology, and teaches faculty development programs for math and technology. You can find Maria blogging on the Internet at [www.TCMTechologyBlog.blogspot.com](http://www.TCMTechologyBlog.blogspot.com) or visit her website at [www.TeachingCollegeMath.com](http://www.TeachingCollegeMath.com). For questions, please email [wyandersen@gmail.com](mailto:wyandersen@gmail.com).