2012 Annual

Fall UMATYC Conference Official Program

Saturday, September 15, 2012

PROGRAM KEY

FD	Foundation/Developmental	TE	Teacher Education
TT	Teaching with Technology	UL	Mathematics Undergraduate Level/Lower Division
UU	Mathematics Undergraduate Level/Upper Division	GL	Mathematics Graduate Level

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9:00 – 9:30 am — Founders Hall

Registration & Continental Breakfast

9:30 – 10:30 am — Founders Hall

Welcome, Introductions, & UMATYC Business

Cindy Alder – 2012 UMATYC President – Snow College

10:30 – 11:00 am — FD, TT — Founders Hall

Re-design of Developmental Math

Presenters: Lorie Hughes – Snow College
Steve Zollinger – Snow College

The presenters will be discussing the redesign of developmental mathematics at Snow College. After considering methods that have been used by many other schools, a committee of faculty members have decided to use an online adaptive technology to help students complete their sub 1000 level courses. The redesign includes students working independently in class and on their own time with the computer program to progress through the material at their own pace. In addition to their computer work, students are required to attend one project day every week with the instructor to help the students make connections between mathematics and the bigger picture. A portion of the presentation will include input from attendees on what is being done in their schools to address the growing need for developmental math classes.

11:00 – 11:30 am — TE, TT, UL — Founders Hall

Minds of Modern Mathematics iPad App Plus Movies!

Presenter: Larry Smith – Snow College

IBM created an iPad App to share the display of the timeline of modern mathematics that was created for museums in the 1960's. Included are nine short animated math films from the period.

11:30 – 12:00 pm FD, TT Founders Hall

Developmental Mathematics Program Completion: Traditional Instruction Compared to Computer Based Instruction

Presenter: Carrie Quesnell, Weber State University

Developmental mathematics courses exist at most colleges and universities in the United States and enrollment in these courses is increasing. Many students must pass one or more of these courses before they can register for mathematics courses that earn credit toward their degrees. Computer based instruction is one of the strategies that shows promise for improving student success. In this study, two groups of students were compared to determine whether lecture based instruction or computer based instruction was more effective. Student course enrollments and final grades were analyzed for five semesters and four variables were compared using t tests. Significant differences existed for the percent of students who finished their program of study with lecture instruction having a higher percentage. However, the lecture group of students had a higher high school GPA which may be a confounding factor. There was no significant difference found between the two types of instruction for the variables that measured time to complete the program of study, enrollment in degree-advancing math courses, or grade earned in degree-advancing courses.

12:00 – 1:00 pm Founders Hall

Lunch & Networking *Sponsored by:* iLearn, Inc.

1:00 – 2:00 pm TT, UL, UU Founders Hall

Commercial Presentation – Hawkes Learning Systems
Mastering Math, Not the System

Presenter: Emily Jones – Mt. Pleasant, SC

You know the scenario: Students seem to be doing well on homework, yet perform poorly on exams. With Hawkes, students can no longer "cheat the system" to get through assignments. Instead, they are held accountable for mastering the material without relying entirely on learning aids. Discover how Hawkes motivates students to succeed.

2:00 – 2:30 pm FD, UL Founders Hall

π is Wrong: Be 1 with the τ

Presenters: Omel Contreras – Snow College
Larry Smith – Snow College

For centuries we, the mathematical world, have used the symbol π in studying and representing many of our mathematical and scientific formulae. However, π is not the most intuitive or logical number to use in the aforementioned formulae. Come find out about the movement sweeping across the mathematical world that makes the "wrong" right.

2:30 – 3:30 pm FD, TT Founders Hall

Synthetic Factoring: A Student Centered Approach to Factoring Trinomials

Presenter: Jonathan Anderson – Utah Valley University

Factoring trinomials where the leading coefficient is not one can be difficult to learn. This presentation introduces a method of factoring that is called Synthetic Factoring. This method utilizes prior knowledge of simplifying fractions and it increases the speed and accuracy of factoring. Students will increase their confidence when it comes to factoring trinomials. It allows quadratic equations that are solvable by factoring to be solved quicker than ever before. Synthetic Factoring can be used to factor any quadratic trinomial, whether that trinomial has a leading coefficient of one or not, allowing a single method to be learned rather than two or three.

3:30 – 4:00 pm Founders Hall

UMATYC Officers Meeting

Thank you for attending this year's conference.
We hope you will plan to attend UMATYC again next year!

2013 Annual

UMATYC Fall Conference

Hosted by:

Salt Lake Community College

UMATYC is an affiliate of AMATYC (American Mathematical Association of Two-Year Colleges).
For information about AMATYC, visit their web site at www.amatyc.org

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