Cool iTools

ICTCM 24th ANNIVERSARY

Teaching with Them

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24th Annual

International Conference on Technology in Collegiate Mathematics

Conference Pre-Session

Cool iTools--Teaching with Them

Organizers:

Sharon Sledge, San Jacinto College

Lila F. Roberts, Clayton State University

Presenters:

Phyllis Bolin, Abilene Christian University

John Ehrke, Abilene Christian University

Lila F. Roberts, Clayton State University

No matter what you call it - iPad, Motorola Xoom, Toshiba Thrive, HP TouchPad, Blackberry PlayBook, Smartphones - these touch tablet/mobile learning devices are part of our technology culture and are poised to fundamentally change the learning environment--but HOW? Join us for a look at how to incorporate these devices as practical and purposeful tools for teaching and learning. Explore new ways of reading, writing, watching and thinking that accompany this platform. Investigate apps that improve academic life. Bring your device and learn how to use it for more than a flashlight when the power goes off in your classroom.

A Campus Connected: Abilene Christian University

Abilene Christian University (ACU) has been at the forefront of integrating mobile technology into the campus fabric. Recently ACU was named an Apple Distinguished Program to "recognize its work to understand the impact of mobility in education."

We are extremely fortunate to have two faculty members from the Department of Mathematics who will share their experiences and lessons learned in this campus initiative.

Dr. John E. Ehrke is an Assistant Professor of Mathematics at Abilene Christian University in Abilene, Texas. He is interested in exploring the implications of mobility for technology enhanced CAS and graphing calculator applications, and advocates for improved mathematical typesetting capabilities across all platforms. He is currently working on various iTunes Course creation projects which leverage course blogs, mobile computing apps, and iBooks Author created e-texts.

Dr. Phyllis Bolin is an Associate Professor of Mathematics at Abilene Christian University and Director of ACU's Quality Enhancement Plan for Research Literacy. She is an active researcher in mathematics education in the area of algebraic thinking and algebraic habits of mind. Her work with iPad includes study of effectiveness of mobile learning in content courses for pre-service elementary teachers.
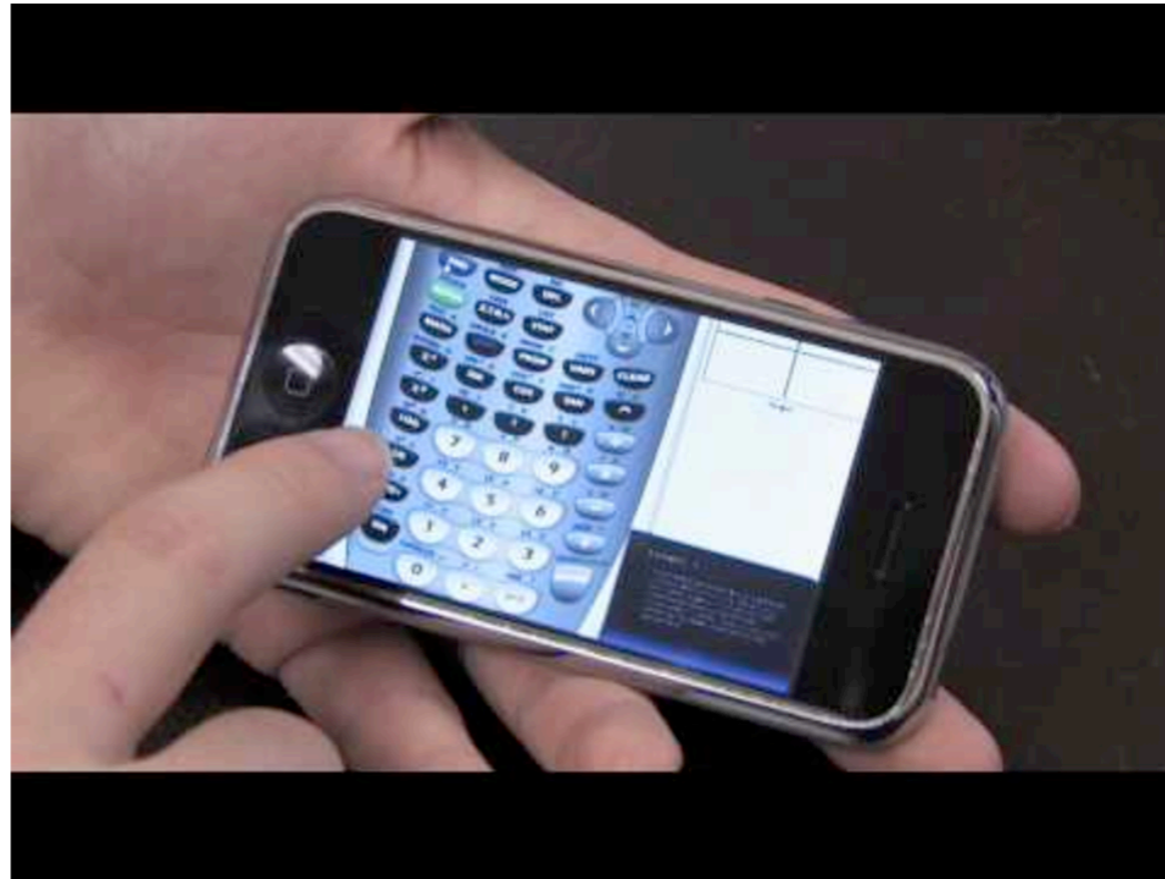
Dr. Lila F. Roberts is Dean of the College of Information and Mathematical Sciences at Clayton State University. She is interested in emerging technologies and how they can be used in teaching and learning mathematics. She considers herself an "experimenter," often one of the first on the block to try out the capabilities of new devices.

Dr. John Ehrke talks about using Mobile Technology in Teaching Mathematics.

http://www.youtube.com/watch?v=SaomJqrljmw

8:00-8:30 Continental Breakfast

8:30-9:15 *iThinking*--How are some of the ways that a mobile culture can change our model of what teaching and learning should look like? What are some of the issues that affect our embrace of mobility in teaching and learning mathematics? How might we define a "successful" implementation of these new technologies? What are some of the things we might look forward to seeing in the coming months and years? These questions and more will be explored in this introductory overview session.

(Lila F. Roberts)

9:30-10:15 *What a campus-wide initiative looks like...experiences from Abilene Christian University*

(Phyllis Bolin and John Ehrke)

9:30-9:45 *Background on the ACU Mobile Learning Initiative*--During this session participants will be introduced to the ACU mobile learning initiative providing an overview of the infrastructure that supports mobile learning at ACU. Participants will be provided the most recent mobile learning report for the university and usage statistics for the university. A timeline of major events beginning with the initial rollout in Fall 2008 to the inclusion of the Digital Learning Studio in Fall 2011 will be discussed with an eye toward future innovations.

9:45-10:00 *What the Student Sees*--During this session participants will be led through the many facets of the infrastructure that supports mobile learning at the university from mobile interfaces,

integration with file servers, blog hosting, and digital media access.

10:00-10:15 *From Development to Implementation to Assessment*--In this session we will look at establishing a work flow for implementing mobile learning on an individual course to course basis. Development tools from iBooks Author to iTunes U Course Creation will be discussed.

Implementation of mobile learning through the blog system and the usage of various apps from calculator apps to productivity apps will be included. Finally, we will close with a few thoughts on what assessment looks like in a mobile environment.
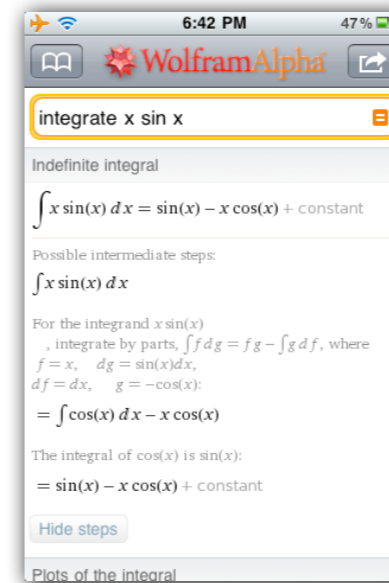
10:15-10:30 Break

10:30-10:50 *Classroom Experiences*: *Dr. Phyllis Bolin*

10:55-11:15 *Classroom Experiences*: *Dr. John Ehrke*

11:15-12:00 Discussion and Q&A: *Presenters and Participants*

12:00-12:45 Lunch

12:45-1:30 *My Favorite App*

Phyllis: Numbers/Pages, Sketchpad, Overdrive, OnLive Desktop

John: OmniGraph Sketch, Bump, Wolfram|Alpha, MathStudio (formerly SpaceTime)

Lila: ScreenChomp, Video Physics, DataAnalysis, Notability (and other notes apps), various free calculator apps for iOS devices and Android

1:30-1:45 Break

1:45-3:30 *iWant Hands-On Time!* During this time the participants will have an opportunity to think about a plan or activity in which they include their mobile device as part of the instruction. Presenters will be available to offer suggestions, answer questions, and share participants' interesting ideas and/or discoveries.

3:30-4:00 Wrap Up/Evaluation (Sharon Sledge)