

Poster Sessions

Friday, October 31 & Saturday, November 1, 2003
Grand Ballroom

Posters will be displayed on Friday from 10:00 AM - 4:00 PM and Saturday from 8:00 AM - 1:00 PM.
The hours of availability for each presenter can be found on the individual display boards.

USING PccALCULATOR (NEW) TO ENHANCE COLLEGIATE MATHEMATICS, WITH EMPHASIS ON TRANSFORMATIONS, INTEGRATION, STATISTICS, AND PROBABILITY DISTRIBUTION

Simon Ugwuoke, *Shaw University*

This poster will display a PowerPoint presentation of a survey on classroom use of technology. We explore various ways of enhancing collegiate mathematics using this multipurpose software with emphasis on graphical transformations, binomial expansion, integration, and probability distributions.

RESEARCH ON TRAINING TEACHERS TO USE THE GRAPHING CALCULATOR AS A TEACHING TOOL

Brenda Lee, *WeFeng Institute of Technology, Taiwan*

The purpose of this poster is to report on research training seed teachers in Taiwan in who will teach mathematics with the help of graphing calculators. We will also present some of the teaching materials created by our seed teachers.

INTRODUCING THE TI-83+ INTO YOUR INTRODUCTORY STATISTICS CLASSROOM

Yvette Nicole Johnson, *Lansing Community College*

This poster will display classroom-ready activities that can be used in introductory statistics. Introductory statistics instructors with little or no experience with the TI-83+ will benefit considerably from this presentation. Examples will be given for descriptive statistics, graphing techniques, regression, and hypothesis testing.

A COMPREHENSIVE ONLINE MATHEMATICS ASSESSMENT, READINESS AND EXIT TESTING PROGRAM

Jerry Johnson, Immaculada Aban, Jeff Mortensen, *University of Nevada*

We are beginning the use of web-based mathematics examinations to assess and improve our curriculum and teaching. We are also working with high school math teachers to use these tests to assist their students in preparation for college level work. The poster will address the software and describe the steps we have made so far. We acknowledge NSF Grant DUE 9980687.

LEARNING CRYPTOLOGICAL MATHEMATICS IN A TECHNOLOGY-ENHANCED CLASSROOM

Daniel Wisniewski, *DeSales University*

This poster will describe a newly designed, technology-enhanced classroom with interactive white-board technology and student workstations which facilitated a varied learning environment where students implemented numerous cryptological methods and studied the mathematics inherent to them through lectures, presentations, programming, experimentation, and problem-solving. Software utilized during this course included Turbo C++, Microsoft Excel, and Derive®.

INTERACTIVE WEB-BASED CALCULUS PROJECTS AT HOLLINS UNIVERSITY: STUDENT SOLUTIONS

Steve Hammer, *Virginia Western Community College*

Julie Clark, Caren Diefenderfer, Trish Hammer, Jessica King, *Hollins University*

We showcase one of two recently developed interactive web-based calculus projects which combine Java applets and downloadable Maple worksheets. Calculus I students use live online images to measure the "thrill" of real roller coasters and then design an original and thrilling coaster.

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USING INTEGRATION TO ESTIMATE THE AREA OF THE US STATES

Steve Hammer, *Virginia Western Community College*

Julie Clark, Caren Diefenderfer, Trish Hammer, Jessica King, *Hollins University*

We showcase one of two recently developed interactive web-based calculus projects that combine Java applets and downloadable Maple® worksheets. Calculus II students use live online state maps to collect border data and then use integration techniques to approximate the area.

HOW CAN A LogiTech io PEN™ BENEFIT MATHEMATICS TEACHERS?

Karen Anglin, *Blinn College*

The LogiTech io Pen™ can help you communicate with your students, keep you organized, save time, increase efficiency, ease writing articles for journals, equations and figures for books, and more.

USING GEOMETER'S SKETCHPAD™ IN COLLEGE GEOMETRY

Bob Tilidetzke, *Charleston Southern University*

Four labs that study transformations of the plane via Sketchpad™ will be discussed. Topics include composition and commutativity of transformations.

CREATING INTERACTIVE WORKBOOKS USING MS EXCEL

Sarah Lou Mabrouk, *Framingham State College*

MS Excel is not just for spreadsheets! Learn how to use the MS Excel control toolbox to create interactive workbooks with scrollbars, buttons, and graphs that are useful in course demonstrations and course assignments as well as workbooks that allow students to explore concepts.
