

**January 27-29, 2011**

**Hot Springs  
Arkansas**



**The 8<sup>th</sup> Hot Springs  
Teachers Teaching with  
Technology™  
Regional Conference**

**Sponsors:**

Arkansas Council of Teachers of Mathematics

Arkansas School for Mathematics, Sciences and the Arts

UCA Arkansas Center for Mathematics and Science Education

Texas Instruments

## Exhibitors—Located on the Third Floor, Room 2307

Texas Instruments-Exhibitor and Major Sponsor

Wendy Peel, Robb Wilson

SP Controls-----	Steve James
Pearson Education-----	James Gray
Singapore Math-----	Debra Simpson
GIZMOS-Explore Learning-----	Pam Berry
STRIVE-----	Jim Winter
Arkansas State Teachers Association-----	Shanna Morgason
Harding University-----	Tim Brister
Mid-America Museum-----	Nicole Herndon
Arch Ford Print Shop-----	Vicky Evans
National Council of Supervisors of Mathematics-----	Suzanne Mitchell
UALR Science Scholars-----	Jim Winter
GEMS-Lawrence Hall of Science-----	Belinda Robertson

### Exhibitors/Sponsors

The Arkansas Center for Mathematics and Science Education at UCA-----	Uma Garimella
Arkansas School for Mathematics, Sciences and the Arts (ASMSA)-----	Mia Anderson
Arkansas Council of Teachers of Mathematics (ACTM)-----	Tracy Watson Susan and Al Creekmore

## **AAML (Arkansas Association of Mathematics Leaders) Meeting**

3:00 – 6:00 p.m. in the ASMSA Chapel

Agenda: Ratification of the Constitution and By-laws

Election of Officers

Discussion of Implementation of the Common Core State Standards



# Welcome Mathematics and Science Educators!

Visit Texas Instruments™ in the Exhibits Area



## Schedule of Events:

Thursday, January 27

Dessert Reception: 6:30 – 9:00 p.m.

Arlington Hotel Conference Center

Friday, January 28

Continental Breakfast: 8:00-9:00 a.m.

ASMSA Cafeteria\*

Morning Sessions: 9:00 – 10:30 a.m.      10:45 – 12:15 p.m.

ASMSA

Lunch Break: 12:00 p.m. – 1:00 p.m.

Boxed Lunches, ASMSA Cafeteria\*

Afternoon Sessions: 1:00 – 2:30 p.m.      2:45 – 4:15 p.m.

ASMSA

Saturday, January 29

Continental Breakfast: 7:30-8:30 a.m.

ASMSA Cafeteria\*

Morning Sessions: 8:30 – 10:00 a.m.      10:15 – 11:45 a.m.

ASMSA

\*To reach the cafeteria, take the 2nd floor walkway to the residential building and go to the 3rd floor.

## Arkansas School for Mathematics, Sciences and the Arts

**Exhibitors:** Third Floor, Room 2307

Friday 8:30-4:00

Saturday 8:00-10:30

**Workshop Sessions:** Second through Fifth Floors

**Shuttle:** between Arlington Hotel and ASMSA

Beginning one hour before first session Friday and 30 minutes before first session Saturday

Running as needed during beginning and ending conference times

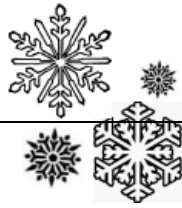
## UPDATE OPERATING SYSTEMS:

First Floor, Board Room – Friday Only

Bring your class set of TI-Nspire, TI-Nspire CAS, TI-84+, or TI-73, drop them off on Friday morning to have the operating systems upgraded, and pick them up at the end of the day.



# Friday Sessions



<p>9:00-10:30 a.m. Room 2207</p> <p><b>Temperature Probes Novice</b></p> <p><i>Elementary</i></p>	<p style="text-align: center;"><b>Mitten Mission</b> <i>Amy Adair Harding University</i></p> <p>This math, science and literacy integrated session will use technology to discover how mittens keep hands warm and what material makes the most efficient mitten. Temperature probes will be used as participants use inquiry as they learn about temperature, conduction, insulators, and heat.</p>
<p>9:00-10:30 a.m. Room 2301</p> <p><b>TI-Nspire CAS Intermediate</b></p> <p><i>Algebra I &amp; II, Pre-cal/Trig</i></p>	<p style="text-align: center;"><b>Now You Know the Basics of TI-Nspire - What's Next?</b> <i>Sherry Everding, T<sup>3</sup> Regional Instructor Cor Jesu Academy, MO</i></p> <p>Variables, Data-Capture, Spreadsheets, Sliders and Animations. Investigate these features and learn how they help students develop a deeper understanding of the symbolic, graphical, numerical, verbal and geometric representations of a problem situation.</p>
<p>9:00-10:30 a.m. Room 2309</p> <p><b>TI-84 family Novice</b></p> <p><i>Algebra II, Geometry, Pre-cal/Trig, Calculus</i></p>	<p style="text-align: center;"><b>The Great Applied Problem and Other Individualized Problems</b> <i>Tom Reardon, T<sup>3</sup> National Instructor Fitch High School / Youngstown State University, OH</i></p> <p>This is the best applied problem that I have encountered with more mathematical ideas illustrated than any other I have found. Obtain other good real world problems and learn how to individualize them. Get a CD with hundreds of activities ... and PEZ!</p>
<p>9:00-10:30 a.m. Room 2401</p> <p><b>TI-84 family CBR 2 Beginner</b></p> <p><i>Middle School Math, Algebra I</i></p>	<p style="text-align: center;"><b>Leave No Student Behind with the TI-84+ Handheld</b> <i>Marian Prince, T<sup>3</sup> National Instructor Andrews University, MI</i></p> <p>Use the TI-84+ calculator with and without the CBR2 in engaging activities. The TI-Navigator will be used to facilitate this session but is not essential for these activities to help your students.</p>
<p>9:00-10:30 a.m. Room 2403</p> <p><b>TI-Nspire Beginner</b></p> <p><i>Geometry</i></p>	<p style="text-align: center;"><b>Transformations &amp; the Traveling Point</b> <i>Jennifer Wilson, T<sup>3</sup> Regional Instructor Northwest Rankin High School, MS</i></p> <p>Participants will learn how to incorporate Geometry Nspired lessons on transformations along with a rich, engaging problem from a Japanese mathematics classroom. Activities can be used for whole-class learning with TI-Nspire Teacher Software.</p>
<p>9:00-10:30 a.m. Room 2407</p> <p><b>TI-84 family Beginner</b></p> <p><i>General: Finance</i></p>	<p style="text-align: center;"><b>Discount! Discount! Discount?</b> <i>Kelly Sharp Columbia College, MO</i></p> <p>Ever wondered if you are truly getting the best deal? Have you been offered a zero interest rate or cash back and not sure which to take. This session will use the TI-84 calculator and the Finance app to show you how to figure out which is the best bargain.</p>



# Friday Sessions

<p>9:00-10:30 a.m. Room 2409</p> <p><b>TI-84 family Smart View Beginner</b></p> <p><i>Middle School Science</i></p>	<p><b>Using the TI-84 with Data Analysis of Science Fair Projects</b> <i>Cynthia Ann Miller ASU Delta STEM Center</i></p> <p>This session will train teachers in the use of the TI-84 for both descriptive (mean, median, standard deviation, etc) and basic inferential statistics such as independent and paired t-tests, linear regression, etc. so they will be able to assist their students with upcoming science fair project data analysis.</p>
<p>9:00-10:30 a.m. Room 2502</p> <p><b>TI-Nspire TI-Nspire Navigator Novice</b></p> <p><i>Algebra I, Algebra II</i></p>	<p><b>Using the TI-Nspire Navigator in Algebra I and Algebra II Classes</b> <i>Valerie Hudson, T<sup>3</sup> National Instructor MathForward, TX</i></p> <p>This is an introduction to the use of the TI-Nspire Navigator System in Algebra classrooms. Teachers will explore the various functions of the TI-Nspire Navigator system. CDs with all activities presented will be provided.</p>
<p>9:00-10:30 a.m. Room 2503</p> <p><b>TI-Nspire TI-Nspire Navigator Novice</b></p> <p><i>General</i></p>	<p><b>Confessions of NSpire Navigator Newbies</b> <i>Debbie Tripp, Debbie Stewart, Heather Meseke Fountain Lake High School</i></p> <p>Having only 2 days of formal training on NSpires and Navigators, these three high school teachers have plunged into utilizing this technology in their classrooms. They will share some of the tricks they have learned as well as share an activity that can be used immediately in an Algebra I or II class.</p>
<p>9:00-10:30 a.m. Room 2506</p> <p><b>TI-Nspire CAS TI-Nspire Navigator Beginner</b></p> <p><i>Algebra I &amp; II, Pre-cal/Trig</i></p>	<p><b>Multiple Representations of Functions</b> <i>Vicki Carter, T<sup>3</sup> National Instructor West Florence High School, SC</i></p> <p>Participants will explore representations of functions using tables, graphs, and algebraic expressions. We will also explore the use of parameters to analyze functions and to reveal characteristics of their graphs. Participants will also have the opportunity to use the TI-Nspire Navigator system to explore multiple representations of algebraic concepts.</p>
<p>9:00-10:30 a.m. Room 2521</p> <p><b>TI-Nspire Intermediate</b></p> <p><i>Algebra II</i></p>	<p><b>Maximize Drainage Flow</b> <i>Tony Timms, T<sup>3</sup> National Instructor Southeast Arkansas Education Service Cooperative</i></p> <p>Come experience the ease with which the Nspire handheld can provide a wonderful visual representation. What does a city engineer have to do with a parabola, rectangle, and drainage ditch?</p>
<p>9:00-10:30 a.m. Room 2505</p> <p><i>General Audience</i></p>	<p><b>What's New at TI</b> <i>Wendy Peel, Texas Instruments</i></p> <p>Participants will get a hands-on view of the latest TI technology as well as learn about grant resources, activity resources, professional development opportunities and much more!</p>



# Friday Sessions

<p>10:45 a.m.-12:15 p.m. Room 2207</p> <p><b>TI-15, TI-73</b> <b>Beginner</b></p> <p><i>Elementary</i></p>	<p align="center"><b>Making Sense of Number Sense with the TI15</b> <i>Marsha Burkholder, T<sup>3</sup> National Instructor</i> <i>Columbus City Schools, OH</i></p> <p>In this hands on session, participants will learn how to use the TI-15 calculator to help students in grades 3-5 with number sense. We will explore using numbers more flexibility so that we can apply mathematical concepts.</p>
<p>10:45 a.m.-12:15 p.m. Room 2301</p> <p><b>TI-Nspire CAS</b> <b>Internet resources</b> <b>Intermediate</b></p> <p><i>Algebra I, Geometry</i></p>	<p align="center"><b>Data Nspires Geometry</b> <i>Jean McGehee</i> <i>University of Central Arkansas</i></p> <p>Geometry conjectures need to be verified by data. The Nspire interfaces data with tables and graphs. This presentation shows an unusual way to calculate pi with an experiment (Buffon's Needle Problem). It also shows teachers how to use Nspire to help students establish results instead of accepting them. I will include circle and geometry problems that can be graphed. The Geometry Nspired website will highlight action/consequence documents for developing conjectures.</p>
<p>10:45 a.m.-12:15 p.m. Room 2309</p> <p><b>Various Sensors</b> <b>Beginner</b></p> <p><i>Middle School Math,</i> <i>Middle School Science,</i> <i>Physics</i></p>	<p align="center"><b>How fast do you roll and what wavelength are you on?</b> <i>Kevin Keen, Jonathan Stanley</i> <i>Arkansas State University</i></p> <p>Keen = Two machines will be used to make transverse waves, one to compare frequency and pitch, and one machine that uses a photogate timer to determine speed. Stanley = Radar guns will be utilized in the session to illustrate acceleration and doppler effect.</p>
<p>10:45 a.m.-12:15 p.m. Room 2401</p> <p><b>TI-Navigator</b> <b>TI-84 family</b> <b>CBL 2, CBR 2</b> <b>Intermediate</b></p> <p><i>Middle School Math,</i> <i>Algebra I</i></p>	<p align="center"><b>Algebra: Takin' it to the Streets!!</b> <i>Marcelline Carr, T<sup>3</sup> Regional Instructor</i> <i>Little Rock School District</i></p> <p>This will be an interactive session using the TI-Navigator system, the TI-84 Plus graphing calculators, and the CBR will keep your whole class engaged in exploring real world algebra problems. This hands-on session will feature strategies, activities, and games from the Summer Mathematics Advanced Readiness Training (SMART) program designed to help students to be successful in Algebra I.</p>
<p>10:45 a.m.-12:15 p.m. Room 2402</p> <p><b>TI-84 family</b> <b>CBL 2</b> <b>Intermediate</b></p> <p><i>Physics, Algebra II,</i> <i>Pre-cal/Trig</i></p>	<p align="center"><b>Exploring Exponential Functions</b> <i>Linda Barnes, T<sup>3</sup> Regional Instructor</i> <i>Oden High School</i></p> <p>Participants will explore the basics of exponential functions with real world application problems using the TI 84 handheld, various probes and the Navigator. Example: drug dissipation in the body, Newton's Law of cooling--a forensic application.</p>

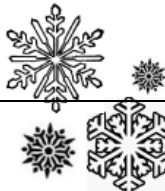


# Friday Sessions

<p>10:45 a.m.-12:15 p.m. Room 2407</p> <p><b>TI-84 family</b> <b>Intermediate</b></p> <p><i>Middle School Math, High School Math</i></p>	<p align="center"><b>Highlights of the new TI-84 OS</b> <i>Ann Schlemper, T<sup>3</sup> Regional Instructor, Columbia College</i> <i>Michelle Goetz, Parkway North, MO</i></p> <p>Did you know that the TI-84 has a new Operating System that lets you input and view math symbols, formulas and stacked fractions exactly as they appear in textbooks? Did you know that with this new OS you can also scroll the history of calculations and quickly recall input/output, you can do fraction math with easy-to-use templates, you can trace a function using each fraction listed as the step sizes, and so much more? Come explore the new features .</p>
<p>10:45 a.m.-12:15 p.m. Room 2409</p> <p><b>TI-84 family</b> <b>Novice</b></p> <p><i>Algebra I</i></p>	<p align="center"><b>The New Teacher's Guide to Hands-On Algebra Activities with the TI-84+ Calculator</b> <i>Sha'Vonya Bennett Berry</i> <i>Pine Bluff School District</i></p> <p>All too often our students' experiences with mathematics and calculators are limited to textbook problem solving and number crunching. This session is perfect for the new teacher who is ready to take everyday calculator usage to the next level. Participants of this session will leave having experienced 4-5 practical activities that can be used right away to give students meaning to the mathematics.</p>
<p>10:45 a.m.-12:15 p.m. Room 2502</p> <p><b>TI-Nspire</b> <b>TI-Nspire Navigator</b> <b>Beginner</b></p> <p><i>Algebra I &amp; II</i></p>	<p align="center"><b>Stop, Collaborate &amp; Listen (Formative Assessment)</b> <i>Jeff McCalla, T<sup>3</sup> Regional Instructor</i> <i>St. Mary's Episcopal School, TN</i></p> <p>Do you ever have trouble motivating students to work on hard material? I found a solution. A creative formative assessment method using TI-Nspire Navigator that you could implement in your classroom with or without technology.</p>
<p>10:45 a.m.-12:15 p.m. Room 2503</p> <p><b>TI-Nspire</b> <b>TI-Nspire Navigator</b> <b>Beginner</b></p> <p><i>Physics, Algebra I &amp; II, Pre-cal/Trig</i></p>	<p align="center"><b>Navigating Learning and Assessment with the TI-Nspire Navigator System</b> <i>Suzanne Moyers</i> <i>C.E. Byrd High School, LA</i></p> <p>The transition from TI-Navigator to Nspire Navigator is a lot easier than you might expect. Everything from Class Analysis, to clearing handhelds, to charging and connecting cradles can be an easy, hassle-free process with a few simple steps and a bit of patience. Even if you have never used Navigator, you can have Nspire Navigator up and running in very little time.</p>
<p>10:45 a.m.-12:15 p.m. Room 2506</p> <p><b>TI-Nspire CAS</b> <b>TI-Nspire Navigator</b> <b>Intermediate</b></p> <p><i>Pre-cal/Trig, Calculus</i></p>	<p align="center"><b>Calculus Explorations with the TI-Nspire Navigator</b> <i>Vicki Carter, T<sup>3</sup> National Instructor</i> <i>West Florence High School, SC</i></p> <p>Calculus activities using the TI-Nspire CAS enhance the visual and graphical understanding of concepts. I will share some ideas and documents for use with the TI-Nspire Navigator System in the AP Calculus classroom to help the students have a better understanding of some core concepts.</p>



# Friday Sessions

<p>10:45 a.m.-12:15 p.m. Room 2521</p> <p><b>TI-Nspire Intermediate</b></p> <p><i>Algebra I &amp; II, Statistics</i></p>	<p style="text-align: center;"><b>Nspire your Students with Statistics</b> <i>Roberta Parks</i> <i>University of Arkansas Fort Smith</i></p> <p>Use the advanced capabilities of the TI-Nspire to demonstrate statistical concepts such as histograms, scatterplots, and boxplots. Use in Algebra 1 and Algebra 2 as well as Statistics.</p>
<p>10:45 a.m.-12:15 p.m. Room 2505</p> <p><b>Gizmos Beginner</b></p> <p><i>Elementary, Middle School, and High School Math and Science</i></p>	<p style="text-align: center;"><b>Gizmos and Common Core Standards</b> <i>Pam Berry</i> <i>ExploreLearning Gizmos</i></p> <p>Gizmos are online math and science simulations for teachers and students in grades 3-12. They are not "just something else to do!" Come find out how Gizmos can help you implement the new common core standards and prepare for the upcoming new assessments. Experience Gizmos "hands-on" for yourself.</p> 

**Lunch Break – 12:15 – 1:00 p.m.**



**Pre-ordered Box Lunches available in ASMSA Cafeteria**

<p>1:00-2:30 p.m. Room 2301</p> <p><b>TI-Nspire CAS Internet Resources Beginner</b></p> <p><i>Algebra II</i></p>	<p style="text-align: center;"><b>Light It Up</b> <i>Linda K. Griffith, T<sup>3</sup> National Instructor, University of Central Arkansas</i> <i>Tommy Hunt, Greenbrier High School</i> <i>Cara Cates, Conway Christian School</i></p> <p>Explore the lesson from NCTM Illuminations: Given a mirror and laser pointer, determine the position where one should stand so that a reflected light image will hit a designated target. This investigation develops different forms of a rational function. Explore the relationship between the graph, the equation, and problem context.</p>
<p>1:00-2:30 p.m. Room 2309</p> <p><b>TI-Nspire TI-84 family Beginner</b></p> <p><i>Geometry</i></p>	<p style="text-align: center;"><b>Nspiring Students to Deepen Their Understanding of the Pythagorean Theorem</b> <i>Wallece Brewer, T<sup>3</sup> National Instructor</i> <i>ASU Rural STEM Center</i></p> <p>Participants will use the TI-Nspire handheld to explore the Pythagorean Theorem and extend their understanding of the theorem to include areas of figures other than squares on the sides of a right triangle.</p>

**Buy "Cooking with ACTM" cookbook  
at the ACTM table in the exhibit area (3<sup>rd</sup> floor, Room 2307).**



# Friday Sessions

<p>1:00-2:30 p.m. Room 2401</p> <p><b>TI-Navigator TI-84 family CBL 2, CBR 2 Intermediate</b></p> <p><i>Middle School Math, Algebra I</i></p>	<p><b>Using Interactive Stations to Get Your Algebra Students Up and Moving</b></p> <p><i>Vanessa Cleaver, T<sup>3</sup> Regional Instructor Little Rock School District</i></p> <p>This interactive session will provide participants with ideas for setting up stations in their classrooms that will allow students to explore multiple real-world problems during one class period. Attendees will use the TI-84 Plus graphing calculators and the TI-Navigator to explore multiple representations and connections among the concepts.</p>
<p>1:00-2:30 p.m. Room 2402</p> <p><b>TI-84 family CBL 2 Beginner</b></p> <p><i>Elementary</i></p>	<p><b>Elementary Science with Data Collection</b></p> <p><i>Chris Coker Camden Fairview</i></p> <p>Attendees will learn how to use data collection technology in the elementary science and math classroom.</p>
<p>1:00-2:30 p.m. Room 2403</p> <p><b>TI-Nspire Novice</b></p> <p><i>Middle School Math, High School Math</i></p>	<p><b>My Top Ten Essential TI-Nspire Activities</b></p> <p><i>Tom Reardon, T<sup>3</sup> National Instructor Fitch High School / Youngstown State University, OH</i></p> <p>After 5 years of working with Nspire, I have created this list of Nspire documents that will knock your socks off. If you have been using Nspire, you will want these -- these will buy you valuable teaching time. If you are not sure about Nspire, these will help you decide. Get a CD filled with hundreds of math activities ... and PEZ!</p>
<p>1:00-2:30 p.m. Room 2407</p> <p><b>TI-84 family Beginner</b></p> <p><i>Middle School Math, Algebra I &amp; II, Pre-cal/Trig, Statistics</i></p>	<p><b>These are a Few of Our Favorite Apps!</b></p> <p><i>Michelle Goetz, Parkway North Ann Schlemper, T<sup>3</sup> Regional Instructor, Columbia College, MO</i></p> <p>Did you know that the TI-84 comes fully loaded with many applications and that others can be downloaded for free? Come explore some of our favorite apps, including Inequalz, Finance, and Prob Sim.</p>
<p>1:00-2:30 p.m. Room 2502</p> <p><b>video seminar Novice</b></p> <p><i>Elementary, Middle School Math, Algebra I &amp; II, Geometry, Statistics, Pre-cal/Trig, Calculus</i></p>	<p><b>NCTM E-Seminar: Effective Mathematics Instruction: The Role of Mathematical Tasks (K-12)</b></p> <p><i>Margaret S. Smith, University of Pittsburg (via video) Tracy Watson, University of Arkansas at Little Rock</i></p> <p>This seminar will focus on the relationship between the nature of the mathematical tasks in which students engage and what students ultimately learn about what mathematics is and how one does it. Participants will have opportunity to engage in an analysis of two tasks, to analyze several short vignettes of classroom instruction, and to consider research that makes salient the impact of tasks on learning.</p>



# Friday Sessions

<p>1:00-2:30 p.m. Room 2503</p> <p><b>TI-Nspire TI-Nspire Navigator Novice</b></p> <p><i>Algebra I &amp; II, Geometry, Pre-cal/Trig</i></p>	<p style="text-align: center;"><b>Get Nspired!</b> <i>Michelle Bonds, T<sup>3</sup> Regional Instructor Bald Knob High School</i></p> <p>The new TI-Nspire is now easier than ever to use. With the new action/consequence documents, you can immediately incorporate this new technology into your classroom effectively. Come see how you can motivate your students with hands-on activities for high school math. No experience needed.</p>
<p>1:00-2:30 p.m. Room 2506</p> <p><b>TI-Nspire CAS TI-Nspire Navigator Beginner</b></p> <p><i>Algebra I, Geometry</i></p>	<p style="text-align: center;"><b>Engaging Environment with Nspire Navigator</b> <i>Kara Jordan, T<sup>3</sup> Regional Instructor Glenwood High School, IL</i></p> <p>Keep your students engaged and let them show you what they know! Build unity and community within your classroom while letting the students do the work. Step back and provide guidance. Activities from Algebra and Geometry will be shared.</p>
<p>1:00-2:30 p.m. Room 2521</p> <p><b>TI-Nspire Beginner/ Intermediate</b></p> <p><i>Statistics</i></p>	<p style="text-align: center;"><b>Sampling Simulation using the TI-Nspire</b> <i>Marian Prince, T<sup>3</sup> National Instructor Andrews University, MI</i></p> <p>Use the TI-Nspire learning handheld functionality in the Lists &amp; Spreadsheet and Data &amp; Statistics applications to perform simulations to create a sampling distribution and to demonstrate the need for the t-model. Beginners are welcome.</p>
<p>1:00-2:30 p.m. Room 2505</p> <p><b>TI-Nspire CBR 2 Beginner</b></p> <p><i>Algebra I &amp; II</i></p>	<p style="text-align: center;"><b>Nspire Your Students by Putting the Fun in Functions!</b> <i>Aurelia Weil, T<sup>3</sup> National Instructor Cor Jesu Academy, MO</i></p> <p>By using these TI-Nspire activities, our students are developing a deeper understanding of the basic properties of linear, quadratic, absolute value, rational and square root functions. Classroom ready hand-outs and TI-Nspire programs will be provided.</p>



Set up your online account at  
[www.actm.net](http://www.actm.net) and remain a  
member in good standing.

# Friday Sessions

<p>2:45-4:15 p.m. Room 2207</p> <p><b>TI-73</b> <b>Beginner</b></p> <p><i>Middle School Math</i></p>	<p style="text-align: center;"><b>Gettin' Down With Data</b> <i>Tim Brister</i> <i>Harding University</i></p> <p>Looking for some great ways to teach data analysis topics using the TI-73 graphing Calculator? Then this is the session for you. Activities in this session will show how data analysis can be integrated into other math topics in the middle grades. Special attention will be given to data analysis topics in the Common Core Standards.</p>
<p>2:45-4:15 p.m. Room 2301</p> <p><b>TI-Nspire CAS</b> <b>Beginner</b></p> <p><i>Algebra II, Pre-cal/Trig, Calculus</i></p>	<p style="text-align: center;"><b>Nspire Documents in Precalculus and Calculus</b> <i>Charles Mullins</i> <i>Arkansas School for Mathematics, Sciences and the Arts</i></p> <p>A hands-on session to aid teachers in learning how to help their students excel in Precalculus and Calculus with Nspire Documents</p> 
<p>2:45-4:15 p.m. Room 2401</p> <p><b>TI-84 family</b> <b>Intermediate</b></p> <p><i>Middle School Math, Algebra I, Geometry</i></p>	<p style="text-align: center;"><b>Do You See What I See?</b> <i>Sandra Hocutt, T<sup>3</sup> Regional Instructor</i> <i>MathForward Implementation Specialist, Allen, TX</i></p> <p>This lesson has students discover how pictures formed by graphing ordered pairs can be translated, dilated and reflected by manipulating the coordinates. Students will apply rules for transformations to lists and see the results in multiple representations (lists, graphs). Teachers will be sent the lists via Navigator and will leave will ready to use handouts.</p> 
<p>2:45-4:15 p.m. Room 2402</p> <p><b>TI-84 family</b> <b>Various</b> <b>Sensors/Probes</b> <b>Intermediate</b></p> <p><i>Middle School Math and Science, Physics</i></p>	<p style="text-align: center;"><b>Forensics Science</b> <i>Glenda Jackson</i> <i>Arkansas River Education Service Cooperative</i></p> <p>This workshop is designed for teachers who wish to introduce forensics techniques using probes and sensor from Texas Instruments. A scenario will be used to introduce the concepts or methods to be addressed in the lab. Each activity will be used to solve a crime introduced in the scenario with the data collected.</p>
<p>2:45-4:15 p.m. Room 2403</p> <p><b>TI-Nspire</b> <b>TI-Nspire Navigator,</b> <b>CBR 2</b> <b>Temperature Probe</b> <b>Beginner</b></p> <p><i>Middle School Math, Algebra I &amp; II</i></p>	<p style="text-align: center;"><b>TI-Nspire and Data Collection: A Delicious Combination!</b> <i>Valerie Hudson, T<sup>3</sup> National Instructor</i> <i>MathForward Implementation Specialist, TX</i></p> <p>Looking for a way to incorporate data collection with the TI Nspire? Come and receive fun, (and yummy!) ready to use activities to motivate students to explore the wonderful world of data! Teachers will also receive CDs with all activities presented.</p>



## Friday Sessions

<p>2:45-4:15 p.m. Room 2407</p> <p><b>TI-84 family Beginner</b></p> <p><i>Algebra II</i></p>	<p style="text-align: center;"><b>Minimize Cable/Internet Cost</b> <i>Tony Timms, T<sup>3</sup> National Instructor</i> <i>Southeast Arkansas Education Service Cooperative</i></p> <p>Come see how to effectively use lists in a problem solving situation. What does a river, cable, and cost have to do with a right triangle/distance formula?</p>
<p>2:45-4:15 p.m. Room 2409</p> <p><b>TI-84 family Intermediate</b></p> <p><i>Pre-cal/Trig, Calculus</i></p>	<p style="text-align: center;"><b>Curve Fitting in Trigonometry and Calculus</b> <i>Corey Boby, T<sup>3</sup> National Instructor</i> <i>Lakeside High School</i></p> <p>This session will look at some applications of curve sketching for advanced math classes. The applications are from environmental science and the origins of Taylor and MacClaurin Series. Particular attention will be paid to the significance and interpretation of residuals and correlation coefficients.</p>
<p>2:45-4:15 p.m. Room 2502</p> <p><b>TI-Nspire TI-Nspire Navigator Beginner</b></p> <p><i>Middle School Math, Algebra I</i></p>	<p style="text-align: center;"><b>TI-Nspire Technology for Pre-Algebra</b> <i>Patsy Fagan, T<sup>3</sup> National Instructor</i> <i>Drake University, IA</i></p> <p>Fractions, proportional thinking, related operations, etc, are often not considered when using Nspire technology. Yet,, middle grades and pre-algebra students can benefit as much as advanced mathematics students. Sample activities will be presented using the Nspire technology including Connect-to-Class and Nspire Navigator for novice and intermediate users</p>
<p>2:45-4:15 a.m. Room 2506</p> <p><b>TI-Nspire CAS TI-Nspire Navigator Intermediate</b></p> <p><i>Algebra I &amp; II, Geometry, Pre-cal/Trig, Calculus</i></p>	<p style="text-align: center;"><b>TI-Nspire vs TI-Nspire CAS</b> <i>Bill Caroscio, T<sup>3</sup> National Instructor</i> <i>Elmira Southside HS (Retired), NY</i></p> <p>To CAS or not to CAS that is the question. What are the differences and when and why use each? Algebra Systems can allow students to conjecture about and discover mathematical concepts on their own. Tools restricted in assessment do not have to be restricted within instruction. More importantly they can enhance instruction.</p>
<p>2:45-4:15 p.m. Room 2505</p> <p><b>TI-84 family Novice</b></p> <p><i>Algebra I &amp; II</i></p>	<p style="text-align: center;"><b>Using TI 84 Technology with Junior High and High School Curriculum in Atlantic Canada</b> <i>Richard Snow, T<sup>3</sup> National Instructor</i> <i>Centre for Distance Learning and Innovation, Newfoundland</i></p> <p>In this session we will use the TI 84 technology (TI SmartView) to go through some activities related to junior and senior high curriculum in Atlantic Canada. Included in this session will be such things as programs for integers, fractions as well as plotting data, lines of best fit and so much more.</p>

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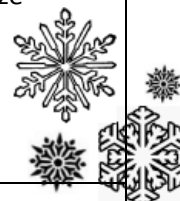
## Saturday Sessions

<p>8:30-10:00 a.m. Room 2207</p> <p><b>TI-73</b> <b>Beginner</b></p> <p><i>Elementary, Middle School Math</i></p>	<p><b>The Power of the TI-73 for Elementary and Middle Grades</b> <i>Ann Schlemper, T<sup>3</sup> Regional Instructor, Columbia College</i> <i>Michelle Goetz, Parkway North, MO</i></p> <p>Why should you use a graphing calculator in the elementary and middle grades? This session will explore those capabilities of the TI-73 that differ from those of the TI-83/84 to demonstrate its power for the teaching and learning of mathematics at the middle grades. These capabilities include simplifying fractions manually, operating with fractions, making statistical graphs such as pie graphs and pictographs, exploring integers on number lines and more.</p>
<p>8:30-10:00 a.m. Room 2301</p> <p><b>TI-Nspire CAS</b> <b>Beginner</b></p> <p><i>Algebra II, Geometry, Pre-cal/Trig</i></p>	<p><b>The Nspired Parabola</b> <i>Linda K. Griffith Griffith, T<sup>3</sup> National Instructor</i> <i>University of Central Arkansas</i></p> <p>The TI-Nspire CAS will be used to help develop the concept of the parabola as the set of all points equidistant from a given point (focus) and a given line (directrix). This general definition will be used to get to the equation of the parabola in standard position.</p>
<p>8:30-10:00 a.m. Room 2309</p> <p><b>TI-84 family</b> <b>Novice</b></p> <p><i>Middle School Math, Algebra I &amp; II, Geometry</i></p>	<p><b>Introduction to Handheld Technology</b> <i>Ronnie Flowers</i> <i>Bentonville High School and Arkansas State Teachers Association</i></p> <p>This class will be a hands-on class designed to help all teachers become familiar with Texas Instruments graphing calculators. This class will discuss basic functions such as how to erase and archive programs and manage memory, activate programs and applications, download programs and educational games from the computer, and use the calculator on the overhead. I will give an overview of what the students can do with this technology in any math class, so that the teacher will learn how to deal with their students having it or decide to integrate it into their classroom.</p>
<p>8:30-10:00 a.m. Room 2401</p> <p><b>TI-Navigator</b> <b>TI-84 family</b> <b>Beginner</b></p> <p><i>Algebra I &amp; II</i></p>	<p><b>Enabling Students to Develop Algorithms</b> <i>Jennifer Wilson, T<sup>3</sup> Regional Instructor</i> <i>Northwest Rankin High School, MS</i></p> <p>Participants will look at how technology can help students recognize patterns, make connections, and develop algorithms for several traditional algebra problems. We will also look at where the problems fit into the Common Core Standards.</p>
<p>8:30-10:00 a.m. Room 2402</p> <p><b>TI-84 family</b> <b>Novice</b></p> <p><i>Geometry</i></p>	<p><b>Exploring Geometry Using Cabri Jr.</b> <i>Tracy Watson, T<sup>3</sup> National Instructor</i> <i>University of Arkansas at Little Rock</i></p> <p>Participants will learn the basic commands for using the Cabri Jr. Geometry App as well as explore geometric constructions and relationships. The activities are designed to engage students in discovering geometric relationships and making mathematical connections. Topics that will be covered include lines, angles, triangles, quadrilaterals, circles, transformations and geometric relationships.</p>


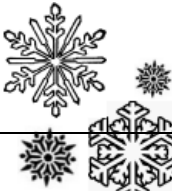



# Saturday Sessions

<p>8:30-10:00 a.m. Room 2403</p> <p><b>TI-Nspire TI-Nspire Navigator Various Probes Novice</b></p> <p><i>Middle and High School Math and Science</i></p>	<p align="center"><b>Data Collection with the TI-Nspire - The Basics</b> <i>David A. Young, T<sup>3</sup> National Instructor Fayetteville Public Schools</i></p> <p>Come learn how quick and easy it can be to get data into the TI-Nspire and then how to use it in light of the Document model. Great for mathematics and science classes of all levels. In this workshop you will learn what probes work with the TI-Nspire and how to set up your favorite data collection investigations. All of the resources and investigations used will be posted on a web site for your future use.</p>
<p>8:30-10:00 a.m. Room 2409</p> <p><b>TI-84 family Beginner</b></p> <p><i>Algebra I, Algebra II, Pre-cal/Trig</i></p>	<p align="center"><b>Graphing Calculators: Teach, Explore and Learn!</b> <i>Terry Sermons C. E. Byrd High School, LA</i></p> <p>Use graphing calculator-based lessons that teach the objectives and reinforce concepts! Students explore and discover the true meaning of such topics as domain and range, graphing principles, and inequalities/systems of inequalities. Objectives, student handouts, and some exams included. Don't have a class set? Use as a demonstration tool!</p>
<p>8:30-10:00 a.m. Room 2504</p> <p><b>TI-Nspire TI-Nspire Navigator Novice</b></p> <p><i>Middle School Math, Algebra I &amp; II, Geometry, Statistics, Pre-cal/Trig, Calculus</i></p>	<p align="center"><b>TI-Nspire, Navigator, SMART - A Super Combination!</b> <i>Tom Reardon, T<sup>3</sup> National Instructor Fitch High School / Youngstown State University, OH</i></p> <p>Be amazed how to creatively integrate these fascinating technologies. Obtain interactive Nspire documents that are classroom ready, see how to manage your classroom with Nspire Navigator, and discover cool ways to utilize SMART Boards. Get a CD filled with hundreds of activities ... and PEZ!</p>
<p>8:30-10:00 a.m. Room 2506</p> <p><b>TI-Nspire CAS TI-Navigator Beginner</b></p> <p><i>Algebra I &amp; II, Statistics</i></p>	<p align="center"><b>Linear Regression and TI-Nspire Navigator</b> <i>Kara Jordan, T<sup>3</sup> Regional Instructor Glenwood High School, IL</i></p> <p>My students researched their own YouTube videos to see if they could find linear patterns in number of hits per hour. Come see which "hits" where hits! TI-Nspire Navigator makes it possible to share results with the whole class, and let the students take the lead.</p>
<p>8:30-10:00 a.m. Room 2407</p> <p><b>TI-84 family, CBL 2 Beginner</b></p> <p><i>General Science and Math</i></p>	<p align="center"><b>Don't You Forget About Me! (Part 1)</b> <i>Jeff Lukens, T<sup>3</sup> National Instructor Roosevelt High School, SD</i></p> <p>You grew up using the TI-84, right? You still have scads of TI-84s in your school, right? They still work, right? Deep in your heart, there is a tender spot for the TI-84, right? RIGHT! Dust off those babies and get them into the hands of your science students! Come and see how you can use them in that science class of yours.</p>



# Saturday Sessions

<p>10:15-11:45 a.m. Room 2407</p> <p><b>TI-84 family, CBL 2 Temperature probes EasyTemp probes Beginner</b></p> <p><i>General Science and Math</i></p>	<p align="center"><b>Don't You Forget About Me! (Part 2)</b> <i>Jeff Lukens, T<sup>3</sup> National Instructor Roosevelt High School, SD</i></p> <p>OK, OK, I'm a lazy slug. Just read the description for "Part 1" and add this to it: "Data collection and analysis is STILL easy, cool, and fun with the TI-84! Come and check it out!"</p> 
<p>10:15-11:45 a.m. Room 2207</p> <p><i>Elementary, Middle School Math</i></p>	<p align="center"><b>Singapore Math</b> <i>Debra Simpson, Consultant</i></p> <p>Singapore has led the world with the highest math scores for years. In this hands-on workshop get a glimpse of what makes Singapore Math different and better. See why Singapore Math was the model for the Common Core Standards that Arkansas has adopted. See the American version.</p>
<p>10:15-11:45 a.m. Room 2309</p> <p><b>TI-84 family Beginner</b></p> <p><i>Middle School Math, Algebra I</i></p>	<p align="center"><b>Integrating Hand Held Technology into the Pre-Algebra and Algebra Classroom</b> <i>Ronnie Flowers Bentonville High School and Arkansas State Teachers Association</i></p> <p>Come learn about great activities that improve learning in the Pre-Algebra and Algebra classroom. Activities demonstrated and discussed will be how area formulas are derived, probability simulations, games using scientific notation, graphing games, guess the function game, pattern recognition games, and interactive notes from the calculator using the overhead. I will also discuss how to use "press-to-test" on the TI-84+ in order to keep students from using these activities when they don't need to.</p>
<p>10:15-11:45 a.m. Room 2402</p> <p><b>TI-84 family, CBL 2 Beginner</b></p> <p><i>Middle School Math and Science, Chemistry</i></p>	<p align="center"><b>Slope Labs Using Data Collection</b> <i>Chris Coker Camden Fairview</i></p> <p>Attendees will use data collection technology to do slope of a line, rate of change labs to apply in the math or science classroom.</p> 
<p>10:15-11:45 a.m. Room 2403</p> <p><b>TI-Nspire TI-Nspire Navigator Various Probes Beginner</b></p> <p><i>Middle School Math and Science, Physics, Algebra I, Statistics</i></p>	 <p align="center"><b>What can TI-Nspire do with data?</b> <i>Marian Prince, T<sup>3</sup> National Instructor Andrews University, MI</i></p> <p>Explore how to use TI-Nspire with Easy Temp, CBR2, and Dual Range Force Sensor. See how to use the Nspires as tools in your high school or middle school mathematics or science classes. This session will be enhanced with TI-Nspire Navigator. Beginners welcome.</p>



## Saturday Sessions

<p>10:15-11:45 a.m. Room 2409</p> <p><b>TI-84 family Internet Resources Intermediate</b></p> <p><i>Middle School Math and Science, Algebra I</i></p>	<p align="center"><b>Graphing Calculators - Good Stuff You Need To Know</b> <i>Robb Wilson</i> <i>Texas Instruments</i></p> <p>This hands-on session will focus on forgotten features of the TI-83/84 Plus graphing calculator. Topics will include the equation solver, using Boolean Logic to test answers, memory reset for testing, archiving, games, table setup, zoom memory, APPS, P2T, manual fit, bar graphs, circle graphs, grouping, split screens, and much more. The handout alone is worth your time.</p>
<p>10:15-11:45 a.m. Room 2504</p> <p><b>TI-Nspire TI-Nspire Navigator Novice</b></p> <p><i>Middle School Math, Algebra I &amp; II</i></p>	<p align="center"><b>Using the TV Show Numb3rs and the TI Nspire</b> <i>Valerie Hudson, T<sup>3</sup> National Instructor</i> <i>MathForward, TX</i></p> <p>The TV show Numb3rs is full of great math applications! Discover how to use clips from the show to motivate your students to investigate and problem solve! Teachers will also receive CDs with all activities presented.</p>
<p>10:15-11:45 a.m. Room 2506</p> <p><b>TI-Nspire Novice</b></p> <p><i>Algebra I</i></p>	<p align="center"><b>The Common Core Comes to Arkansas or Teaching the New Algebra I</b> <i>David A. Young, T<sup>3</sup> National Instructor</i> <i>Fayetteville Public Schools</i></p> <p>Yes we will be adopting the Common Core along with 47 other states. Come explore what the new Algebra I curriculum will require and experience what the TI-Nspire could do to help you teach it. See how the Document Model of the Nspire can serve as a Graphic Organizer and how this technology is a perfect fit for the Rigor and Relevance grid. All of the resources and investigations used will be posted on a web site for your future use.</p>
<p>10:15-11:45 a.m. Room 2521</p> <p><b>TI-Nspire Internet Resources Intermediate</b></p> <p><i>Physics, Algebra II, Pre-cal/Trig</i></p>	<p align="center"><b>NASA : Nspired! The Exploring Space through Math Project at nasa.gov</b> <i>Suzanne Moyers</i> <i>C.E. Byrd High School, LA</i></p> <p>NASA's "Exploring Space through Math" Project has teamed up with TI to provide real life problems that are literally OUT OF THIS WORLD. From the orbits of the International Space Station (ISS) to the Neutral Buoyancy Lab, NASA and the TI-Nspire have much to offer in sparking student interest and providing rich experiences in learning about the fascinating world of aerospace.</p>

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# T<sup>3</sup> Regional Conference 2011 Sessions Attended



<b>Thursday, Jan 27</b>		Attended Reception: Technology Games		1 hour PD
6:30-9:00 p.m.				
<b>Friday, January 28</b>	<b>Time</b>	<b>Room</b>	<b>Title</b>	<b>Presenter</b>
	9:00-10:30			
	Notes:			
	<b>Time</b>	<b>Room</b>	<b>Title</b>	<b>Presenter</b>
	10:45-12:15			
	Notes:			
	<b>Time</b>	<b>Room</b>	<b>Title</b>	<b>Presenter</b>
	1:00-2:30			
	Notes:			
	<b>Time</b>	<b>Room</b>	<b>Title</b>	<b>Presenter</b>
2:45-4:15				
Notes:				
<b>Saturday, January 29</b>	<b>Time</b>	<b>Room</b>	<b>Title</b>	<b>Presenter</b>
	8:30-10:00			
	Notes:			
	<b>Time</b>	<b>Room</b>	<b>Title</b>	<b>Presenter</b>
10:15-11:45				
Notes:				



**January 27-29, 2011**

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