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# UETCTM News

Newsletter of the Upper East Tennessee Council of Teachers of Mathematics

Volume 7, Issue 4

<http://www.uetctm.org>

February 8, 2007

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## Next UETCTM Meeting Tuesday, February 13

Our fourth meeting of the Upper East Tennessee Council of Teachers of Mathematics will take place on Tuesday, February 13, 2007, at Northeast State Technical Community College. As usual, we will start with refreshments and a social time at 4:00. At 4:30 we will have business meeting in which we will again try to select a new president-elect for 2006-07. Following the business meeting, we will have presentations made by several Northeast State faculty members.

**Directions:** Northeast State is next to the Tri-Cities Regional Airport on State Highway 75. (Take the Gray/SR 75 exit off I-26 or the airport/SR 357 exit off I-81.)

The meeting will be held in the Faculty-Staff Dining Room next to Subway in the Student Services Building (where the auditorium is), not in the library as in years past. Turn right after the entrance road dead-ends. A parking permit is not needed. You can find a campus map online at <http://www.northeaststate.edu/default.asp?DocumentID=355> or a small one on the back page.

## 2006-2007 UETCTM Meetings

February 13, 2007

Northeast State Community College

April 10, 2007

Vance Middle School, Bristol, TN

May 8, 2007

Picnic at Warrior's Path State Park

## Needed: President-Elect

Please, please, please, this is a begging issue now! The office of president-elect for the 2006-07 school year is still vacant and needs to be filled so we can have a president in 2007-08. We will ask for nominations at the business meeting.

**Visit our website at [www.uetctm.org](http://www.uetctm.org)!** Look for pictures of previous meetings, old newsletters, and more. A membership form is available on the website.

## Upcoming events

### National Council of Teachers of Mathematics Annual Meeting

March 21-24, 2007, Atlanta, GA: <http://www.nctm.org/meetings/atlanta/>

NCTM information is online at <http://www.nctm.org>.

### TMTA Math Contest

Tuesday, April 17, 2007

### Middle School Math Day is back!

It is scheduled for April 28, 2007 and will be held at Volunteer High School. We are still planning the specifics for the day, but be sure to mark your calendars and watch for more details

coming soon. If anyone is interested in teaching a workshop for the event, please contact Julia Grecol at [grecolj@hck12.net](mailto:grecolj@hck12.net).

### **Tennessee Mathematics Teachers Association Annual Meeting**

September 20-22, 2007, Bearden High School, Knoxville

### **National Association for Developmental Education Annual Conference**

March 21-24, 2007, Gaylord Opryland Resort & Conference Center, Nashville

<http://www.nade2007.net>

*(NADE is an organization of people who work with underprepared college students, including math, reading, composition, and learning strategies courses. There will be quite a few math sessions. UETCTM president Daryl Stephens is also the outgoing chair of the Mathematics Special Professional Interest Network – see [www.nademathspin.org](http://www.nademathspin.org) for more information about this group.)*

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## **AMATYC Outer Banks Summer Institute “Developmental/Remedial Algebra Using a Function Approach”**

The Outer Banks of North Carolina

June 17 – June 22, 2007

### **Conceptual Foundation "A Function Approach":**

Teaching algebra from a function approach requires the use of **function and function behaviors** to teach algebraic concepts and skills such as factoring, equation solving, arithmetic operations on polynomials, systems of equations, inequalities, properties of inequalities, definitions, concept of asymptotic behavior, absolute value, slope, laws of exponents, etc. Using unique materials, we will reorder the algebra content and use function concepts to develop understanding of, interest in, and long-term memory of traditional algebraic ideas. We will capitalize on cognitive processes of associations, pattern building, attention, visualizations, meaning, the enriched teaching environment, distributed learning, and priming. We will model how to teach developmental/remedial algebra through a function approach with graphing calculators, and demonstrate why they are crucial to teaching and learning.

### **Guiding Questions:**

During the Outer Banks Summer Institute we will briefly review the literature on neuro/cognitive science research of the brain with the expectation that it may answer questions like: How can we foster long-term memory? How can we develop understanding? Is pattern-building better than reasoning when trying foster understanding of algebra? Will memorizing produce long-term memory? Will practice? How is an emotional connection (meaning) related to memory, attention, and understanding? Do we need to “connect” a mathematical concept/skill to other algebraic concepts? To the real world? Can’t we make learning faster? How can we more likely create correct recall of algebra taught? This may sound like rather high expectations, but research in the cognitive and neurosciences have advanced considerably in the last 15 years, and now is the time to interpret the results and implement what we can to teaching and learning of developmental algebra.

### **Teaching Tools:**

At the 9th annual AMATYC Outer Banks Summer Institute we will use the TI-84 Plus SE, TI-CBL2, and Vernier EasyLink, as tools of choice when teaching remedial/developmental algebra.

### **Instructors:**

Debbie Crocker, Appalachian State University; Ed Laughbaum, The Ohio State University

### **Location:**

The Institute will be held on the Outer Banks of North Carolina near the village of Duck at the Army Field Research Facility (FRF) < <http://www.frf.usace.army.mil/>>. The classroom is adjacent to the beach.

### **Registration and Information:**

See <http://www.amatyc.org/Events/summer-institutes.htm> for the registration form. For reports and pictures from earlier years, see [www.math.ohio-state.edu/~elaughba/](http://www.math.ohio-state.edu/~elaughba/) **The deadline is May 1st.**

## Meeting Within a Meeting

### ASA Program for Math/Science Teachers

Based on *Guidelines of Assessment and Instruction of Statistics Education (GAISE)*,

which complements *NCTM Principles and Standards for School Mathematics* and

*NCTM Curriculum Focal Points for Prekindergarten through Grade 8 Mathematics*

Sponsored by the American Statistical Association

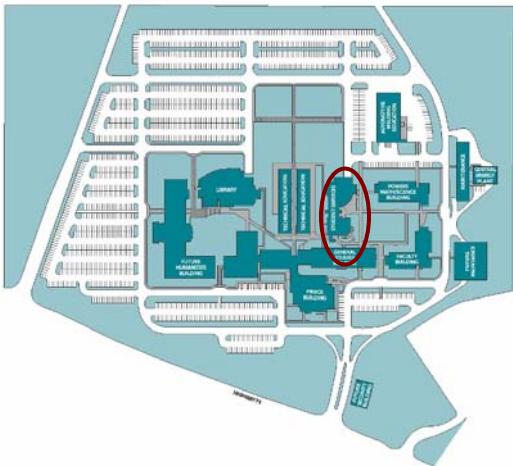
2007 ASA Joint Statistical Meetings

- Date: Monday, July 30, 2007
- Place: Salt Palace Convention Center, Salt Lake City
- Audience: Middle School and Junior High Math and Science Teachers
- Teachers: Submit applications, letter of intent, and letter from principal, all due [March 1, 2007\\*\\*\\*](#).
- Objectives: Enhance understanding and teaching of statistics within the math curriculum based on conceptual understanding, active learning, real world data, and appropriate technology
- Content: Based on standards, assessments, and textbooks  
Consistent with **GAISE** recommendations ([www.amstat.org/education/gaise](http://www.amstat.org/education/gaise)), *NCTM Principles and Standards for School Mathematics*, and *Curriculum Focal Points for Prekindergarten through Grade 8 Mathematics* ([www.nctm.org/focalpoints](http://www.nctm.org/focalpoints))
- Format: One-day meeting  
Activity-based sessions, including lesson plan development  
Lunch and dinner followed by panel discussion  
Overnight stay with optional activities on Tuesday
- Provided: Registration cost  
Meals and refreshments  
One night of lodging (Monday night)  
Handouts  
Professional development half-credit for 7–13 contact hours (if possible)  
Certificate of Participation from the ASA
- Follow-up: Program evaluation for future follow-up workshops  
Development of listserv with questionnaires  
ASA chapters network with local teachers to organize learning communities
- Contact: Rebecca Nichols, [rebecca@amstat.org](mailto:rebecca@amstat.org); (703) 684-1221, Ext. 1877

**\*\*\*Space is limited. If interested in attending, please contact Rebecca as soon as possible.**

<p><b>Officers of UETCTM for 2006-2007</b></p>	<p><b>President</b> Daryl Stephens ETSU Math Department Box 70663 Johnson City, TN 37614 Phone: (423)439-4676 <a href="mailto:stephen@etsu.edu">stephen@etsu.edu</a></p>	<p><b>President-Elect</b> To be supplied</p>
<p><b>Past President</b> Tara Peters Mathematics Coordinator Sullivan County Schools 4154 Sullivan Gardens Dr. Kingsport TN 37660 Phone: (423) 354-1793 <a href="mailto:gregtara@comcast.net">gregtara@comcast.net</a></p>	<p><b>Secretary</b> Guy Mauldin Science Hill High School 1509 John Exum Parkway Johnson City, TN 37604 Phone: (423)232-2190 <a href="mailto:maulding@jcschools.org">maulding@jcschools.org</a></p>	<p><b>Treasurer</b> Floyd Brown Science Hill High School 1509 John Exum Parkway Johnson City, TN 37604 Phone: (423)232-2190 <a href="mailto:brownf@jcschools.org">brownf@jcschools.org</a></p>

Have you renewed your membership? If not, this may be your last newsletter. Go to [www.uetctm.org](http://www.uetctm.org) and print out a membership renewal form and bring it with your dues to the next meeting (or mail it in to the address on the form).



Map of Northeast State; Student Services Building is circled.

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