

The Greater Cleveland Council of Teachers of Mathematics

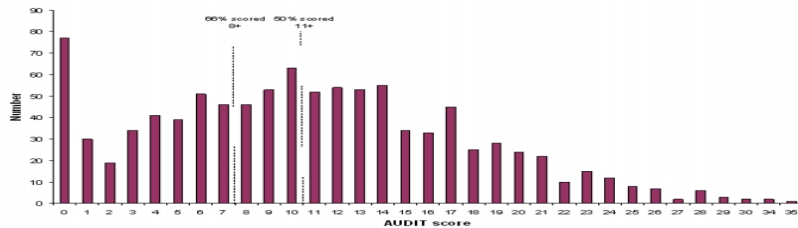
NUMBER NOTES

www.mygcctm.org

Mailed on or before January 9, 2009

*Focus of the 2008-2009 School Year:
The Equity Principle*

Mathematics Careers Beyond Teaching



Presented by:

Amie Nowacki, PhD

Biostatistician at Cleveland Clinic/CWRU

Thursday, January 29, 2009

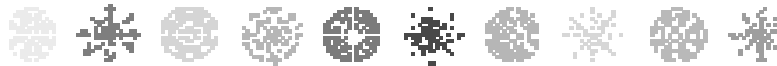
Baldwin-Wallace College, Strosacker Hall
120 E. Grand
(South of Bagley off Tressel Street)

5:15 – 5:45 Light Dinner

5:45 – 6:00 Business Meeting

6:00 – 7:00 Presentation

For more information: Dick Little, South Director:
rlittle@bw.edu



President's Message

The Equity Principle

Differentiated Instruction and the Learning of Mathematics

Happy New Year, GCCTM Members! I hope 2009 is a great year for all of you. Since this is the time for New Year's resolutions, I wonder if our members have given any thought about a classroom resolution related to teaching practices we might use to provide greater equity in our students' mathematics education. One practice that is most challenging is that of differentiated instruction in an era of content standards and accountability. I recently re-read an article titled "*Creating a Differentiated Mathematics Classroom*", by Richard Strong, Ed Thomas, Matthew Perini, and Harvey Silver. It was published a few years ago in *Educational Leadership*, the journal of the Association for Supervision and Curriculum Development (ASCD). I found that ASCD has recently posted the article to their professional development Web site, located at http://pdonline.ascd.org/pd_online/teachbehave2/el200402_strong.html

In the article the authors pose this problem:

Nineteen campers are hiking through Acadia National Park when they come to a river. The river moves too rapidly for the campers to swim across it. The campers have one canoe, which holds three people. On each trip across the river, one of the three canoe riders must be an adult. There is only one adult among the 19 campers. How many trips across the river are necessary to get all the children to the other side?

After studying the problem-solving approaches by more than 200 students, the authors concluded that there are four distinct ways that learners approach mathematics, and that most students are strong only in one or two of the approaches. Not surprisingly, the students favored (and presumably learned best) through instructional approaches that best fit their mathematical learning disposition. One implication of this study could be that even in what I consider to be my best lessons, that only about 25% of my students learn the mathematics through the way I chose to teach it. It also occurred to me that I might teach in a way that reflects the way **I** best understand mathematics.

So, for 2009, I resolve to learn more about learner-centered approaches for differentiated instruction, and to incorporate these recommendations into workshops I design and lessons that I develop with other teachers. If you are interested in learning more in these areas, drop me an email, and together we might work to create a more equitable mathematics learning environment for our students.

George Viebranz

george.Viebranz@ideastream.org

The Greater Cleveland Council of Teachers of Mathematics

Membership dues are \$10.00 for one year, \$45.00 for five years, and \$85.00 for ten years. Please continue or start your membership by filling out this form and by writing a check, payable to GCCTM, for the appropriate amount. Mail both to:
GCCTM Membership, 15690 Balmoral Ct., Strongsville, Ohio 44136-2594
If you don't need this form, please share it with a nonmember.
Please print or type.

Name _____

Address _____

City _____ State _____ Zip _____

Assignment level (circle as appropriate)

Pre-service teacher K 1 2 3 4 5 6 7 8 9 10 11 12 College

District (circle): Central East Northeast South West

School: _____

System: _____

Phone (work) _____ e-mail address _____

Enclosed is \$ _____ for _____ year(s) membership in GCCTM

Renewal _____ New _____

Central: Cleveland City Region

East: Beachwood, Bedford, Chagrin Falls, Maple Hts., Orange, Shaker Hts., Solon, Warrensville Hts., Summit County schools

Northeast: Cleveland Hts./University Hts., East Cleveland, Eastlake, Euclid, Mayfield, Richmond Hts., South Euclid/Lyndhurst, West Geauga, Wickliffe, Willoughby Hills

South: Brecksville, Brooklyn, Brunswick, Buckeye, Cuyahoga Hts., Garfield Hts., Highland, Independence, Medina, North Royalton, Parma, Strongsville

West: Avon, Avon Lake, Bay Village, Berea, Columbia Station, Fairview Park,

Lakewood, North Olmsted, North Ridgeville, Olmsted Falls, Rocky River, Westlake
If your school district is not listed, you are in the region of the school district closest to your own.

Student membership forms available at mygcctm.org.

GCCTM Officer Information

President: Tom Lanning
President-elect: George Viebranz
Vice President: Teresa Graham
Secretary: Lynn Aring
Treasurer: Jerry Moreno

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District Directors:

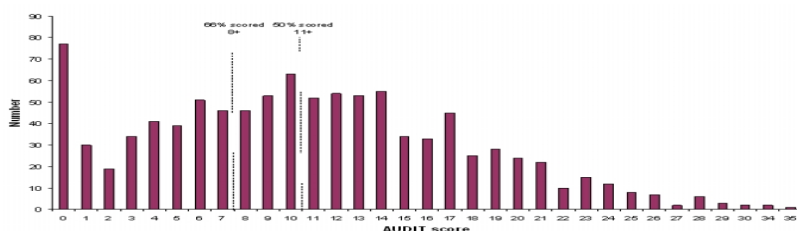
Central: Lou Gliha
East: Carla Kehres
Northeast: Jean Richardson
South: Richard Little
West: Donna Langenderfer
5/6 Contest Contact: Laura Little
5/6 Contest Contact: Nancy Ross
7/8 Contest contact: Adele Cohn
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NCTM Representative: Laura Anfang
Membership: Fred Dillon
Newsletter: Cathy Staveteig
Publicity Chair: Louisa Matthias
Webmaster: Jeff VanArnhem

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Greater Cleveland Council of Teachers of Mathematics
South District Meeting
www.mygctm.org

Mathematics Careers Beyond Teaching



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Amie Nowacki, PhD
Biostatistician at Cleveland Clinic/CWRU

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Cost: \$10 for GCCTM members and \$20 for non-members (includes a one-year membership and light dinner). Non-members must fill out and return membership form (available in this newsletter or on the web, www.mygctm.org) to ensure accurate registration.

Please email Teresa Graham (tgraham@bw.edu) a RSVP by January 26th or send in registration below.

Name _____

Email _____

Phone _____ work _____ home _____

Address _____

City/State/Zip Code _____

School/District/Grade level _____

GCCTM Calendar 2008-2009

www.mygcctm.org

<i>Date:</i>	<i>Event:</i>	<i>Contact:</i>
Week of Jan. 26, 2009	South District	Richard Little
February 16, 2009	Newsletter Deadline	Cathy Staveteig
Week of March 9, 2009	West District	Donna Langenderfer
April 20, 2009	Newsletter Deadline	Cathy Staveteig
May 2, 2009	7-8 Contest	Adele Cohn
May 16, 2009	5-6 Contest	Laura Little and Nancy Ross
Week of May 18, 2009	East District	Carla Kehres
	Awards Banquet	



GCCTM
15690 Balmoral Court
Strongsville, OH 44136