

Central Texas Council of Teachers of Mathematics

CTCTM Newsletter

Spring 2013



Greetings to all Members of CTCTM!

With a school year well underway, we move forward with our efforts to provide the best math education for our students. We can all use helpful resources and information and I hope that you will look to your professional organizations for support. Certainly, CTCTM strives to plan activities that will provide you with opportunities to gather great ideas for your classroom.

SAVE THE DATE for the annual CTCTM Spring Conference! On Saturday, February 23, 2013 we will host a wonderful learning experience for you through a keynote session, breakout sessions, and an opportunity to network with colleagues from the area. Make plans to come from 8:30 – 1:00 on this date at University High School in Waco, Texas. More details are provided in this newsletter and on the web site (www.ctctm.org).

As a member of CTCTM, please consider ways that you can become more involved in this organization. There are opportunities to serve on committees and/or to serve as an appointed or elected position on the Executive Council. The Call for Nominations for officer positions is found in this newsletter and on the web site. Please consider nominating colleagues or yourself for these important positions. Also, if you are interested or have questions, you may contact me at sandra_cooper@baylor.edu. In addition, I want to hear your ideas about how CTCTM can play a more significant role to promote Mathematics Education in our region. Send me an e-mail and let's brainstorm ways to enhance math learning for all our students!

As an affiliate of NCTM, we want to encourage you to learn more about what NCTM can offer you. Certainly, you can check out all the resources and opportunities on the NCTM web site (www.nctm.org), but if you are not a current member, please consider joining today to receive even more benefits.

We look forward to seeing you on February 23 at the annual Spring Conference!

Happy New Year!

Sandi Cooper
President, CTCTM
2012-2014



CTCTM Spring Meeting

Date: Saturday, February 23, 2013

Time: 8:30 AM – 1:00 PM

Location: University High School--Waco, Texas

Featuring—Dr. Johnny Lott



Dr. Johnny W. Lott began teaching in the public schools of DeKalb County, Georgia, taught one year in the Pelican, Alaska, school, grades 6-12. He has served on many NCTM committees, has been a member of its Board of Directors, and was its president from April 2002-April 2004. Dr. Lott is Professor Emeritus from the Department of Mathematical Sciences at The University of Montana, and was the Director of the Center for Excellence in Teaching and Learning, Professor of Mathematics, and Professor of Education at the University of Mississippi. He currently is on the Steering Committee of the Park City Mathematics Institute and is a co-organizer for its International Seminar.

Keynote Address: Reasoning with Art in Math

Art provides a perfect venue for the teaching of mathematics at all levels. With examples from the Waco Cultural Art Fest 2012, from Denver parks, Philadelphia streets and many other places, magnificent examples can fit any mathematics curriculum for problem solving and spatial reasoning. Come and bring examples if you have some good ones.

A light breakfast and Door Prizes will be available at the conference!

If you are a current member of CTCTM, you are automatically registered. However, if you are not, please sign up to be included. Membership forms are on the web site at www.ctctm.org.

Now that the STARR tests have arrived, I thought it might be nice to see a blast from the past.
William Luke—NCTM Representative

"EXAMINATION GRADUATION QUESTIONS ♦ OF SALINE COUNTY, KANSAS

8th Grade Final Exam: Salina, Kansas – 1895

This is **part** of the eighth-grade final exam from 1895 from Salina, Kansas. It was taken from the original document on file at the Smoky Valley Genealogical Society and Library in Salina, Kansas and reprinted by the Salina Journal.

Grammar (Time, one hour)

1. Give nine rules for the use of Capital Letters.
2. Name the Parts of Speech and define those that have no modifications.
3. Define Verse, Stanza and Paragraph.
4. What are the Principal Parts of a verb? Give Principal Parts of do, lie, lay and run.
5. Define Case, Illustrate each Case.
6. What is Punctuation? Give rules for principal marks of Punctuation.
- 7-10. Write a composition of about 150 words and show therein that you understand the practical use of the rules of grammar.

Arithmetic (Time, 1.25 hours)

1. Name and define the Fundamental Rules of Arithmetic.
2. A wagon box is 2 ft. deep, 10 feet long and 3 ft. wide. How many bushels of wheat will it hold?
3. If a load of wheat weighs 3942 lbs., what is it worth at 50cts. per bu, deducting 1050 lbs. for tare?
4. District No. 33 has a valuation of \$35,000. What is the necessary levy to carry on a school seven months at \$50 per month, and have \$104 for incidentals?
5. Find cost of 6720 lbs. coal at \$6.00 per ton.
6. Find the interest of \$512.60 for 8 months and 18 days at 7 percent.
7. What is the cost of 40 boards 12 inches wide and 16 ft. long at \$.20 per inch?
8. Find bank discount on \$300 for 90 days (no grace) at 10 percent.
9. What is the cost of a square farm at \$15 per acre, the distance around which is 640 rods?
10. Write a Bank Check, a Promissory Note, and a Receipt.

U.S. History (Time, 45 minutes)

1. Give the epochs into which U.S. History is divided.
2. Give an account of the discovery of America by Columbus.
3. Relate the causes and results of the Revolutionary War.
4. Show the territorial growth of the United States.
5. Tell what you can of the history of Kansas.
6. Describe three of the most prominent battles of the Rebellion.
7. Who were the following: Morse, Whitney, Fulton, Bell, Lincoln, Penn, and Howe?
8. Name events connected with the following dates: 1607, 1620, 1800, 1849, and 1865?

April 13, 1895 ♦ J.W. Armstrong, County Superintendent. Examinations at Salina, New Cambria, Gypsum City, Assaria, Falun, Bavaria, and District No. 74 (in Glendale Twp.)"

Updates for Colleges and University Mathematics Teacher Educators

As we finish out 2012 and begin 2013, it's important to consider the many current issues in mathematics teacher education. In the state of Texas, we will have a new mathematics curriculum and more rigorous testing and new accountability on the horizon related to teacher education graduates and their impact on student learning. There is also much debate on how and why mathematics should be taught. To that end, here are a few resources you may want to explore and discuss with colleagues.

- **New *Mathematics Teacher Education of Teachers* [MET(2)] Report**

You may recall that in 2001 the Conference Board of the Mathematical Sciences (CBMS) issued the report *The Mathematical Education of Teachers* (MET) that described recommendations to improve mathematics education of future teachers. It was supported by funding from the U.S. Department of Education. Over the past 10 years the report has had a major influence on mathematics teacher education and program development. Last year a group was convened to revisit this document and make new recommendations. The final report is available at <http://www.cbmsweb.org/MET2/index.htm>.

- **Texas College and Career Readiness Resources**

I would encourage you to visit <http://www.txfacultycollaboratives.org/> to explore the available resources and initiatives related to college and career readiness and higher education in Texas. The mathematics collaborative division is directed by Dr. Leslie Huling and Dr. John Beck at Texas State University. There are videos, professional development modules, various instruments, and development materials for MTEs.

- **Mathematics Teacher Educator Journal**

The premier issue of the new *Mathematics Teacher Educator* on-line journal is now available for free preview at either www.amte.net or www.nctm.org. I think you will find the focus on target for us as MTEs. If you are member of AMTE, you can continue to receive the journal for free as a members benefit or purchase a subscription through NCTM.

- **Updates from the Association of Mathematics Teacher Educators (AMTE)**

The Winter 2012 issue of AMTE's newsletter, *Connections*, provides extensive information on the 2013 conference to be held in Orlando, Florida on January 24-26. You will be able to find it on their website, www.amte.net. I would encourage you to visit the website for research resources as well as other information regarding mathematics teacher education.

This year, AMTE has had a focus on equity as a priority and is currently offering free webinars to members focused on this priority. I would encourage you to participate in the next upcoming webinar entitled *Orchestrating Productive Discussions of Cognitively Challenging Tasks*, led by Peg Smith, to be held on February 19, 2013. Past webinars are archived on the AMTE website (www.amte.net).

- **New Reports from The Science and Mathematics Teacher Imperative (SMTI)**

SMTI announced the release of two new reports on teacher preparation: *Ten Key Questions University Leaders Should Ask about Quality Science and Mathematics Teacher Preparation: Implementation Strategies from The Analytic Framework* (www.aplu.org/document.doc?id=4099) by Charles R. Coble and *Seeking Consensus on the Essential Attributes of Quality Science and Mathematics Teacher Preparation Programs* (www.aplu.org/document.doc?id=4098) by Coble and Jennifer B. Presley. These reports are two of the final products garnered from a four-year SMTI project funded in part by a National Science Foundation MSP/RETA grant, *Promoting Institutional Change to Strengthen Science and Mathematics Teacher Preparation*.

Trena L. Wilkerson, Baylor University
CTCTM Vice-President of Colleges & Universities

CALL FOR NOMINATIONS!

Please consider nominating a valued colleague or yourself for a position on the Executive Council of CTCTM. The positions that will be open this coming year include President-Elect, Secretary, VP for Middle School, VP for University, Newsletter, and Community Relations. In addition, we are seeking members for the Finance Committee. The terms are generally 2-years and will begin at the 2013 Spring Conference (February 23, 2013). For more information about each position, please consult the CTCTM Constitution and By-Laws, available on the CTCTM web site or you may contact the President of CTCTM, Sandi Cooper (Sandra_cooper@baylor.edu).

To nominate someone or yourself, please complete the form found on the website (www.ctctm.org) before February 1, 2013. Nominees will be contacted by the Nominations Committee to verify interest and provide more information.

Lessons and Resources on NCTM.org

You can find great resources to use in your classroom, free on NCTM's web site.

Go to...

<http://www.nctm.org/resources/default.aspx?id=230>

You can find lessons, problems, teaching tips, online activities, grants, and more! NCTM provides great resources for teachers, so be sure to go to the web site often.

Try This!

Math is action. It is active, not because we do calculations to arrive at an answer, but because the math itself represents an action. When we add we are putting things together, subtract taking things away, multiply combining equal groups, divide and we are breaking apart equal groups. When presenting problems look for the action!

Mary Jo Montgomery—Vice President-Elementary

Save the Date!

NCTM--April 17th-20th
Denver, Colorado

CAMT--July 9th-12th
San Antonio, Texas

**Central Texas Council of Teachers of Mathematics (CTCTM)
Professional Mathematics Organization Scholarship**

This scholarship will award a one-year membership to the National Council of Teachers of Mathematics (NCTM), a one-year membership to the Texas Council of Teachers of Mathematics (TCTM), and a one-year membership to the Central Texas Council of Teachers of Mathematics (CTCTM).

Deadline: 1 February 2013

Notification of award: By February 23, 2013

Eligibility: Any student attending a Texas college or university and who plans on student teaching during 2011 in order to pursue teacher certification with a specialization or teaching field in mathematics or any teacher who has taught for fewer than two years and who is not a member of TCTM or NCTM. The applicant must either have permanent residence in one of the counties served by Region 12 in Central Texas or attend a college/university located in counties served by Region 12 in Central Texas.

Applicant Information-All information must be complete for consideration.

Name: _____
Last First Middle

Address: _____
Number & Street

_____ City State Zip Code

Contact: () _____ () _____ _____
Home Phone Work Phone Email Address

College/Campus Information

College/Campus Name _____ Graduation Year _____

Teaching Certification: _____ Years Taught: _____

Campus/School District: _____

You must submit the following electronically by **1 February 2013** to sandra_cooper@baylor.edu, President of CTCTM:

1. Completed application.
2. An essay of 500-1500 words that describes how membership in a professional mathematics organization will help you as a teacher of mathematics.

Questions may also be sent to the same e-mail address. Information concerning this scholarship can also be found at www.ctctm.org. Click on Resources and Centers and then the Central Texas Council of Teachers of Mathematics link. An appointed CTCTM committee will review applications. Recipient's name will be submitted to the CTCTM Executive Board who will then notify the recipient and post name to CTCTM website.



CTCTM Spring Conference, February 23, 2013 Speaker Proposal Form



If you are interested in submitting a proposal please provide the following information:

I. Presenter Information

Name _____
 Address _____
 City/State _____
 Zip _____ Phone _____
 School Name _____
 Email: _____

II. Presentation Information

Title of Session _____
 Grade Level(s) (Please check all that apply.)
 PK-2 ___ 3-5 ___ 6-8 ___ 9-12 ___ College ___
Description (Limit 25 words - may be done on separate sheet and attached)

Please give the same information for additional speakers on a separate sheet.

Email to : debbie.perry@midwayisd.org

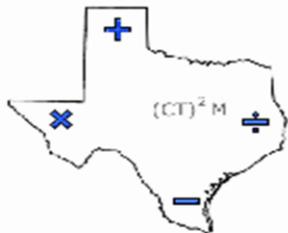
or Mail to: Debbie Perry
 Midway ISD
 13885 Woodway Drive
 Woodway, TX 76712

**All proposals should be received by
 January 28, 2013**

Be sure to share with your colleagues!

Don't forget to stay up to date on CTCTM happenings!

Visit our website at
www.ctctm.org



Has your membership information changed?

Please contact Kathy Hutchison to update your information.

Kathy_Hutchison@Baylor.edu

2012-2013 Officers

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CTCTM

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