



South Carolina Council of Teachers of Mathematics

February 2015

Volume X, Issue 1

In This Issue

- President's Greetings
- SCCTM Grants
- SCCTM Scholarships
- Award Nominations
- MathMate
- 2014 Year in Review
- 2014 Conference Highlights
- PAEMST Awards
- 2015 Conference
- SDE News
- STEM
- SC All-State Math Team
- Other Opportunities
- Time & Talents
- Useful Weblinks
- Professional Development
- Sponsors
- 2014-2015 Officers
- SCCTM Managers & Committee Chairs
- Calendar

Past-President's Greeting

Hello Mathematics Educators,

Happy New Year (a little late)! I hope 2015 finds you and your family (both professionally and personally) healthy and blessed! We had a wonderful 2014 at SCCTM.



We had a great conference this past November in Myrtle Beach. The featured speakers, Ed Dickey and Stuart J. Murphy, were very informative and interesting. We had a wonderful author's luncheon where we heard Stuart Murphy, Crystal Ball O'Connor, Lisa Ray, and Dr. Calvin Irons. In addition, we had many wonderful sessions from our many presenters and the sessions with EdVenture.

We have a new President, Christi Fricks, and several other officers from across the state. We are hoping the new year brings exciting opportunities for the mathematics educators and students in our state.

Looking forward to being a part of it,

Jennifer Wilson, NCTM

SCCTM Past President

scctmprogramchair@gmail.com

We encourage you to follow us on





Simply... achieve the difference!

check out the **CASIO**
difference



TECHNOLOGY



RESOURCES



WORKSHOPS



INTEGRATION

Available for Every Level of Education

It's the **Total Solution**
for the **Common Core**

visit us at www.casioeducation.com

2014 SCCTM Platinum Sponsors



Earn your teaching degree
from the U of SC-Columbia
College of Education.

Learn more at
TeachScienceandMath.org



UNIVERSITY OF
SOUTH CAROLINA
COLLEGE OF EDUCATION

*An investment in knowledge pays
the best interest.*
Benjamin Franklin

SCCTM Grants Applications Due April 15

Bill Whitmire, President-Elect & Committee Chair

The South Carolina Council of Teachers of Mathematics (SCCTM) will fund 3 grants of up to \$1,500 each this year to support SCCTM members desiring to implement projects in mathematics-related areas. Grant application forms and instructions can be found at the websites noted below.

SCCTM Educator's Scholarship

Leigh Haltiwanger, VP-Post Secondary & Committee Chair

This scholarship provides financial assistance of \$1500 to a teacher pursuing an advanced degree in mathematics, mathematics education, or elementary education with an emphasis in mathematics. Eligibility requirements and an application form may be found on the SCCTM websites noted below.

SCCTM Pre-Service Scholarships

Gina Dunn, Committee Chair

This scholarship provides financial assistance of \$1500 to deserving pre-service teachers who express their intention to specialize in the teaching of mathematics. Up to three scholarships are awarded each year depending upon the availability of funds. Eligibility requirements and an application form may be found on the SCCTM websites noted below.

Award Nominations

Christie Reid, Committee Chair

Each year SCCTM recognizes an educator who has made significant contributions to the educational community in our state. If you would like to nominate someone for this award, please go to one of SCCTM's websites noted below to find specific information about award requirements, the nomination form, and a list of past recipients.

Please send your nomination to christie.reid@clover.k12.sc.us no later than July 15, 2015. The award will be presented at the SCCTM 2015 Fall Conference in Greenville on November 12.

**More information and forms are available at
www.scctm.org and scctmprogram.org**

The MathMate

Gina Dunn, Editor

Call for Manuscripts:

The Editorial Board of *The MathMate* invites you to submit manuscripts for upcoming publications. We really need articles or activities for the lower grade levels. If you have an activity that you have successfully used in your classroom and would like to share that activity with other teachers at your grade level, please consider writing about that activity and submitting your manuscript for consideration for publication in *The MathMate*. You may submit your manuscript to: scmathmate@gmail.com.

Please put the following information on a cover sheet:

Name:

Contact Information:

Grade Level:

Thank you for sharing your expertise with other math teachers in South Carolina. Gina and the SCCTM board look forward to receiving your manuscripts for review. If you have any questions, contact Gina at: SCMathMate@gmail.com

PI Day 2015:

A Once in a Century Event

*At 9:26:53 a.m., they can write 3/14/15; 9:26:53,
which you should also recall are the first ten digits
of Pi in perfect order!*

Do you have a "mathism" you would like to share with your peers? Send us your favorites at SCCTMProgram@aol.com.

MathStart®

~ over 10 million books sold ~
an award-winning series
of math story books
for Pre-K through Grade 4

- 63 books / 3 levels
- Visual learning strategies
- Related activities

Math musical:
MainStreetKidsClub.com

HarperCollins Children's Books

stuartjmurphy.com

The results are in!
Educators love...



*Albuquerque Public Schools
*Hawaii Public Schools

*Fort Worth ISD
*Round Rock ISD

2014 SCCTM
Platinum
Sponsors

A Year in Review SCCTM HIGHLIGHTS from 2014

2014 was a very productive year for the South Carolina Council of Teachers of Mathematics. We began the year by reviewing and editing our By-laws. We continued our partnership with the Children's Museum, EdVenture, and sponsored a professional development opportunity for teachers of all ages. We hope to further expand on this partnership in 2015 and offer more opportunities across the state.

Our SC All-State Math Team was very successful and had two students, Guanpeng (Andy) Xu and David Stoner, who distinguished themselves across not only our state, but also the nation. Patrick Rybarczyk, Head Coach, was awarded the Samuel L. Greitzer Award. Thank you Patrick for your continued hard work!

The SCCTM supported the MathCounts program which has celebrated thirty years of operation in our state. We had over 1000 students participate in the MathCounts program in 2014. We applaud and appreciate the many contributions to the program by Marguerite McClam.

The Board voted to restructure the SCCTM Poster Contest. The contest will be digitally formatted and preferably span more grade levels than just elementary. More details about this will be coming soon.

SCCTM awarded three grants of up to \$1,500 each. We recognized the winners at our Fall Conference in Myrtle Beach.

The winners were: Elicia Dowdell of Dubose Middle School for *IPads, Apps, and Special Needs Math Center*, Kristina Kyle of Rainbow Lake Middle School for *Increasing Student –Centered Instruction in the Math Classroom*, and Emily Styer of Fort Dorchester High School for *Math Tablets*.

A Year in Review
SCCTM HIGHLIGHTS from 2014
continued

Three Pre-Service Teacher Scholarships were awarded to Christopher Fieldhouse, Brittany Queen and Coretta Johnson.

The official website, www.scctm.org, has been revamped with enhanced online capabilities for memberships and, especially, conference registration and activities. We continue to update information on the site with the intent of offering more quick reference activities to our members. Information and reminders to check the website are sent via email and posted on our Facebook page.

Thanks to the many educators who attended our fall conference. The conference featured a wide range of professional development sessions and workshops. A record attendance at the 3rd Authors' Luncheon enjoyed Dr. Jeremy Irons, Lisa Ray, Crystal Ball O'Connor, and Stuart J. Murphy who encouraged teachers to share writing and stories to engage students' enthusiasm for learning in the mathematics classroom. Our two Math Trails, Ripley's Aquarium and WonderWorks provided new and hands-on opportunities for teachers to relate mathematics to real-world applications.

We would also like to express our appreciation to our sponsors and exhibitors for bringing us information about current and upcoming products to enhance Math education. And many thanks for the fabulous door prizes many lucky 2014 Conference attendees won.

Plans are underway to bring a great conference to the TD Center in Greenville in November 2015.



Get ready for STEAM!

2014 Pictures from Conference In Myrtle Beach

Karen Threlkeld - 2013 Past President & Program Chair



Karen Threlkeld, 2014 Program Chair, with Keynote Speaker, Dr. Ed Dickey.

First time attendees to the conference attend a Welcome Session with Jennifer Wilson, SCCTM President and Christi Fricks, SCCTM President-Elect.



Session attendees for “Go Fly a Kite” enjoy trying their kites in the Myrtle Beach breeze.

Authors Entertain at Luncheon

Dr. Calvin Irons, Stuart J. Murphy, Crystal Ball O'Connor, and Lisa Ray shared their love of books and learning at the 2014 SCCTM Math Conference.

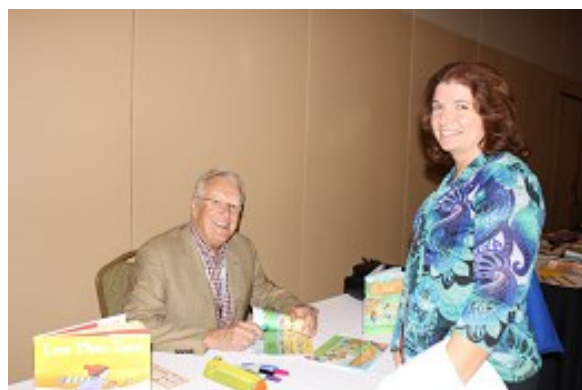
Karen Threlkeld, 2014 Program Chair, thanks our four wonderful Authors.



Dr. Calvin Irons and Stuart J. Murphy with Karen.



Lisa Ray and Chystal Ball O'Connor with Karen.



Stuart J. Murphy signs a book for a conference attendee.



Crystal Ball O'Connor talks with conference attendees about her books.

2014 PAEMST AWARD WINNERS

Amber Tolar teaches fourth grade at Oak Pointe Elementary School in Lexington-Richland School District Five. Renee Joiner is a fifth-grade math and writing teacher as well as Math Olympiad Coach at Little Mountain Elementary School. Both of these exceptional educators are 2014 Presidential Award for Excellent Math and Science Teachers Semi-Finalists.

“Presidential Awards for Excellence in Mathematics and Science Teaching awardees have been shown to devote more time to professional development, incorporate innovative approaches into their classroom teaching, and be more likely to use computers and other technologies in their classrooms,” said Janel E. Johnson, the program’s PAEMST state mathematics coordinator.

The program is considered to be the nation’s highest honor for math and science teachers.

Both Mrs. Joiner and Mrs. Tolar were honored at the Fall Conference in Myrtle Beach.



***2015 SCCTM Fall Conference
TD Convention Center
Greenville, South Carolina
November 12-13
Soon information will be available at
www.scctm.org & www.scctmprogram.org***



SC Dept. of Education Representative

Harriet Pritchard

The South Carolina College- and Career-Ready Standards for Mathematics were written in response to Act 200, which required the state to develop South Carolina standards for mathematics and ELA. The standards for mathematics were initially written by a team of educators from across the state who worked passionately and diligently from July to October. The writing team included classroom teachers, instructional coaches, district leaders, higher education faculty, and educators specialized in English Language Learners, special education, career and technology education, and assessment. The standards were then reviewed by the public, the Education Oversight Committee's review panel, and a task force appointed by the South Carolina Department of Education that included parents, community members, educators, and business people. Revisions were then made to the standards for mathematics from December to February based on all the feedback the South Carolina Department of Education received. The standards will be released to districts for immediate implementation after they are approved by both the South Carolina Board of Education and the Education Oversight Committee.

The state-funded assessments that are currently scheduled to be used in school-year 2014-15 are as follows:

1. Readiness Assessment Program (CIRCLE and mCLASS:CIRCLE) – tests children in kindergarten
2. End-of-Course Examination Program (EOCEP) – tests high school students at the end of Algebra 1, English 1, U. S. History and Biology 1
3. PSAT/NMSQT – optional for 10th graders
4. ACCESS for ELLs® and Alternate ACCESS for ELLs®
5. ACT WorkKeys® – for all students in Grade 11
6. ACT® Aspire™ (math, reading, writing, and English) – for all students in grades 3-8
7. The ACT® – for all students in Grade 11
8. National Assessment of Educational Progress (NAEP) – tests samples of students from Grades 4, 8, and 12
9. S.C. Grade 2 Norm-Referenced Testing Program (Cognitive Abilities Test and Iowa Assessments) – used to help identify students for academically gifted and talented programs
10. South Carolina Performance Tasks (used to help identify students for academically gifted and talented programs)
11. South Carolina Palmetto Assessment of State Standards (SCPASS) – test students in grades 4-8 in science and social studies)
12. South Carolina Alternate Assessments (SC-Alt for Science and Social Studies, NCSC for ELA and Math
13. AP exams – optional for students seeking college credit
14. PSAT – optional for students in grade 10

SCDE Assessment Website: <http://www.ed.sc.gov/agency/ie/Assessment/>

STEM News



For more information,
go to

[http://
www.scfutureminds.org/
this-schools-got-stem/](http://www.scfutureminds.org/this-schools-got-stem/)

SC All-State Math Team Patrick Rybarczyk, Head Coach

ALL-STATE MATH TEAM

Insights from Patrick: Any student that qualifies for the American Invitational Mathematics Examination is asked to be on the All-State team. To qualify for the AIME, students must take the AMC 10 or AMC 12 exam and make the minimum mark for AIME qualification. This is a national test made by the Mathematical Association of America. Students who place in regional math contests may also be chosen. For example, winners of the State MathCounts contest are invited. If a teacher wants to help a student get on the team, he/she should attend as many contests as possible and should register their school for the AMC (American Mathematics Competition). Certain colleges ask for AMC scores, so this can benefit the student in multiple ways. To help students prepare for math contests, the *Art of Problem Solving Website* is the place to go. Most of our top students have logged hundreds, if not thousands, of hours on the website.

Other Opportunities

Teachers College Columbia University, through a grant from the Peter G. Peterson Foundation, and led by Professor Anand Marri, a group of faculty members and graduate students have developed a curriculum about the federal budget, national debt and budget deficit called Understanding Fiscal Responsibility (<http://teachufr.org/request/>).

The 24 free lessons from the curriculum connect students to the current public policy dilemmas about the federal budget, national debt, and budget deficit that confront the United States and its citizens. These 1-2 day lessons are not interdependent and are appropriate for students ranging from grades 9–12 in Civics/Government, Economics, U.S. History/Geography, World History/Global Studies/Geography, and Mathematics.

The lessons engage students in these critical dilemmas and include the resources students will need to deepen their understanding of the complex issues the dilemmas raise. The curriculum is nonpartisan and invites participants from all points of view to ask:

- What do the decisions we make about the federal budget, national debt, and budget deficit say about who we are as a people?
- How should we address our nation's fiscal challenges now and in the future to assure that our decisions are consistent with our values and traditions?

As a nonpartisan and inquiry-based curriculum, the enclosed lessons do not steer students toward any one conclusion about the federal budget, national debt, or budget deficit. Our goal is to have students understand the issues in all their complexities, be able to clarify their own thinking about these issues, and, ultimately, care enough to become involved in debating these and other public policy questions as citizens.

On the curriculum's website, educators can create an account to download all the lessons, its respective resources and supporting documents. Additionally, with a UFR account, educators can create a site for their classroom in the UFR Network (teachufr.org/network). The website includes several resources to help educators use the curriculum such as professional development videos, glossary of common terms and links to interactive media and games dealing with the federal budget, national debt and budget deficit.

There are four great sciences ... Of these sciences the gate and key is mathematics, which the saints discovered at the beginning of the world.. - Roger Bacon

Either mathematics is too big for the human mind or the human mind is more than a machine.—Kurt Godel

The description of right lines and circles, upon which geometry is founded, belongs to mechanics. Geometry does not teach us to draw these lines, but requires them to be drawn.—Sir Isaac Newton

Volunteer Opportunities

Time and Talents:



How can you help SCCTM?

We are looking for teachers who have time to contribute their talents to help our organization grow stronger and be better able to serve our membership. Please complete this questionnaire. At any time, you may send it via email to SCCTMProgram@aol.com; fax to the attention of **Bill Whitmire**, SCCTM President-Elect -- Fax (888) 529-2517; or mail it to: **Bill Whitmire,, PO Box 14302, Florence, SC 29504**. Thank you!

(Please print.)

Name _____ Current teaching level: _____

Mailing address: _____

City: _____ Zip code: _____

County: _____ Phone: _____

Email address: _____

I would be willing to help in the following ways during 2015:

Serve on Fall Conference committees (November 12 - 13)

- _____ door prizes
- _____ registration (Wednesday pm or Thursday or Friday)
- _____ equipment
- _____ NCTM and SCCTM booths
- _____ student pages

_____ **Speak at the 2015 conference (November 12 13)**

_____ **Write an article for *The MathMate***

_____ **Serve on committees (other than conference)**

_____ **Be nominated for an open position on the SCCTM Executive Board**

***Please note any additional suggestions you would like to make to the Executive Board about how SCCTM can better meet your needs, or activities and goals you would like us to pursue in 2015, or other ways you would like to be involved that are not listed above.

Useful Weblinks

Federal Resources:

Free resources for all grade levels for Educational Excellence provided by federal agencies can be found at: <http://www.free.ed.gov/>

Math Playground:

This is a mathematics site for elementary and middle school children. It features math games, word problems, logic puzzles, and math videos
<http://www.mathplayground.com/>

AGrade Math:

This site contains online worksheets and lesson plans for mathematics teachers.
<http://lesson-plans.theteacherscorner.net/math/>

Mrs. Glosser's Math Goodies:

This site contains interactive lessons, printable worksheets, games, and crossword puzzles. Mrs. Glosser's Math Goodies also has a nice forum for math teachers.
<http://www.mathgoodies.com/teachers.html>

Common Core State Standards for Mathematics

The South Carolina State Department of Education CCSSM document.
http://www.ed.sc.gov/agency/programs-services/190/documents/CCSSI_MathStandards.pdf

Professional Development Opportunities

EdVenture  *it's your world*

For more information, visit <http://handsonmindson.org>.

Check out [Distance Learning](#) for
Measure Up! K-2 or
SoundLab 3-5



Technology and Math Webinars available at:

<http://www.CasioEducation.com/educators>

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

<http://education.ti.com/en/us/professional-development/webinars/upcoming>

SCCTM Sponsors and Donors

The South Carolina Council of Teachers of Mathematics seeks (1) to encourage and stimulate greater interest in mathematics and its applications; (2) to encourage and provide opportunities for exchange of ideas and materials related to the instruction of mathematics; (3) to further the cooperative study of problems related to the teaching of mathematics at all levels; and (4) to work for the improvement of mathematics instruction at all levels of education. As a nonprofit organization, SCCTM relies upon its membership; events; and business, institutional and private sponsorships and donations to help offset expenses and promote the advancement of mathematics educational opportunities for educators in the State of South Carolina.

We appreciate the continued support of past corporate and institutional sponsors. In the past such sponsorships were usually tied directly to our Fall Conference. Beginning with the 2012-2013 year SCCTM adopted a new policy for year-long acknowledgements and partnerships with our sponsor contributors and benefactors who provide the support that enables the organization to bring an exceptional level of Professional Development and Benefits to our members.

If you would like to **become a sponsor or make a contribution**, please complete the [contact form](http://www.scctmprogram.org/SponsorsSupport.html#anchor_105) at http://www.scctmprogram.org/SponsorsSupport.html#anchor_105.

While all contributor levels are acknowledged here, additional recognition and partner opportunities are offered to our Platinum, Gold, and Silver Sponsors. Please be sure to check out the Platinum Sponsor websites, and note our sponsors' ads in this publication. As a member, please be sure to let these sponsors and contributors know you appreciate their support.

SCCTM gratefully acknowledges the following sponsors for the 2014-2015 year.

Platinum Sponsors

(click on each Platinum Sponsor to link to their website)

CASIO

Dr. Calvin Irons

Stuart J. Murphy

TeachScienceandMath.org

Gold Sponsors

Encore Technology Group

Francis Marion University

Crystal Ball O'Connor

Silver Sponsors

Hoodamath

Door Prize Contributors

A very special thank you to all of the folks who support the SCCTM Fall Conference. We recognize below those who generously donated the fabulous door prizes for the 2014 Fall Conference.

AIMS Educational Foundation
Borenson and Associates
Box Cars and One-Eyed Jacks
Carnegie Learning
CASIO
Crystal Ball O'Connor
East Educational Services Company
EdVenture
ETA Hand2Mind
Explore Learning
Hart, Inc.
Heinemann
Houghton Mifflin
Jerry Pallotta
J F Bailey and Associates, Inc
Kaplan Early Learning Company
Learning Wrap Ups
Neufeld Learning Systems
Origo
Pearson
Sadliers
SCCTM Booth
SCEA
Scholastic
Tests for Higher Standards
Texas Instruments
Usborne Books and More
Walden University



*Crystal Ball O'Connor, PhD
Outstanding Author and
Artist in Residence*

*To invite Dr. O'Connor to your
school, or to purchase copies of her award winning
children's books and teaching resources,
call 864-979-8554
or visit MonarchPublishers.com*

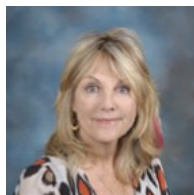
2014 SCCTM Gold Sponsors



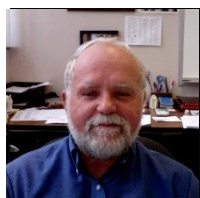
SCCTM 2014-2015 Officers



President
Christi Fricks
 Lakeside Middle School
 Anderson, SC
 Anderson County



Vice President for Elementary
Wanda Noblin
 Cowpens Elementary School
 Cowpens, SC
 Spartanburg County



President-Elect
Bill Whitmire
 Francis Marion University
 Florence, SC
 Horry County



Vice President for Middle
Bernard Frost
 Spartanburg County Schools
 Spartanburg, SC
 Spartanburg County



Past President
Jennifer Wilson
 Midway Elementary School
 Anderson, SC
 Anderson County



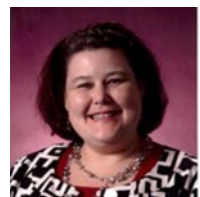
Vice President for Secondary
Karen Threlkeld
 TL Hanna High School
 Anderson, SC
 Anderson County



Secretary
Susie Teague
 S²tem Centers SC
 Upcountry Region



Vice President for Post Secondary
Leigh Haltiwanger
 Clemson University
 Clemson, SC
 Pickens County



Treasurer
Terri Dew
 S²tem Centers SC



Vice President at Large
Gerald Marshall
 Tri-County Technical College
 Pendleton, SC
 Anderson County



NCTM Representative
Mary Pat Sjostrom
 Winthrop University
 Rock Hill, SC
 York County



Government Relations
Christie Reid
 Clover School District 2
 Rock Hill, SC
 York County



SC Department of Education
 Representative
Harriet Pritchard
 State Department of Education
 Columbia, SC

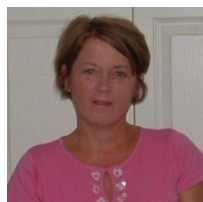
SCCTM Managers



Commercial Exhibit
Manager
Lane Peeler
State Dept. of Ed.—Retired
Columbia, SC



AV Manager
Bill Gillam
Retired Educator
Blythewood, SC
Richland County



Database/Membership
Manager
Cindy Parker
Sumter, SC



Program Manager/
Executive Director
Ann Senn
J F Bailey & Associates, Inc.
Columbia, SC

SCCTM Committee Chairs

Awards Committee Chair—Christie Reid
Door Prizes Committee Chair—
Educators' Scholarship Committee Chair—Leigh Haltiwanger
Grant Awards Committee Chair—Bill Whitmire
Nominating Committee Chair— Bill Whitmire
Pre-Service Scholarship Committee Chair—Gina Dunn
Program Chair—Jennifer Wilson
Publications Chair—Jerry Marshall
SCCTM Grant Initiative Committee Chair—
Site Committee Chair—Jennifer Wilson
Special Training Committee Chair—Marc Drews
Student Pages Committee Chair—

SCCTM Important Dates to Remember

April 15, 2015..... Grant Application Due
April 15, 2015..... Conference Speaker Proposals Due
May 30, 2015 Math/Art Contest Submissions
July 15, 2015..... Award Nominations Due
September 15, 2015..... Educators' Scholarship Application Due
September 15, 2015..... Preservice Scholarship Application Due
November 12 - 13, 2015 . SCCTM Fall Conference in Greenville