



South Carolina Council of Teachers of Mathematics

November 2012

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Upcoming SCCTM Conferences

2013 Greenville

2014 Myrtle Beach



Past-President's Greetings

Hello Mathematics Educators,

The 2012 SCCTM annual conference in Myrtle Beach was a fantastic success with almost 800 attendees. The SCCTM Board sincerely appreciates the efforts that everyone put forth to provide our members with an exciting and memorable conference event. My experience as President of SCCTM during this past year has been very enjoyable and I look forward to serving as conference chair in 2013. Please don't hesitate to get in touch with me with your ideas and/or questions as we plan next year's conference. I'll look forward to seeing you in Greenville in 2013,

Cindy Parker

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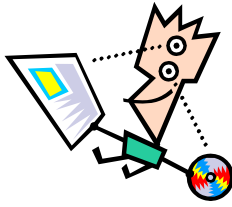
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New MathMate Editor: Elaine Wiegert



The SCCTM Board is excited to announce that Elaine Wiegert, 2012 Past President and Conference Chair will serve as MathMate Editor. Please submit your manuscripts for consideration for publication in upcoming MathMate issues. All manuscripts will undergo a blind review (The reviewers will not know whose manuscripts they are reviewing.) If you submitted a manuscript(s) to the MathMate for review in the past two years, please resubmit your manuscript(s) again.

Please put the following information on a cover sheet:

Name:

Contact Information:

Grade Level:

Submit your manuscripts to: **SCMathMate@gmail.com**

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

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How are you Charting a Course for the Future? Please share your thoughts and resources with other math teachers. You are invited to post your comments, questions, and experiences on the SCCTM facebook page. If you don't have a facebook account (yet) and have you have any ideas about how SCCTM can assist you, just send an email to SCCTMProgram@aol.com. Help SCCTM help you.

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Math Anxiety

Can math problems trigger physical symptoms?

<http://thechart.blogs.cnn.com/2012/10/31/for-math-phobic-numbers-pose-threat-of-pain/>

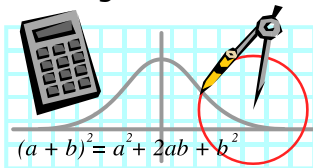
A recent study found similar neural activity occurs in individuals with high math anxiety and those facing physical harm. Researchers using brain-imaging technology studied subjects' neural patterns when faced with a fear-inducing math problem. "I'm really interested in understanding the source of the anxiety so that we can help all students perform up to their best in this important area," said Sian Beilock, a University of Chicago researcher and an author of the study.



Twice as Much Instruction Time

<http://educationnext.org/a-double-dose-of-algebra/>

Pushing students to take algebra in eighth grade, rather than in high school, may not be the answer to greater math achievement, researchers say. Instead, increased math success may be the result of "double-dose" algebra, a curriculum adjustment that offers struggling students an extra period of algebra every day, according to a group of university researchers who investigated the results of extra algebra in districts, including Chicago Public Schools.



The Math of Hurricane Sandy

Schools were closed up and down the East Coast recently, and countless cities and towns are in the beginning stages of recovering from the effects of Hurricane Sandy. For math teachers in other parts of the country looking to give students a perspective on the events, NCTM has resources to offer. <http://www.nctm.org/resources/content.aspx?id=34789>



Connect to Other Math Educators

Connect to other math teachers and members of the mathematics education community. Take advantage of receiving up-to-date announcements, a daily math problem, recent articles, easy access to conference information and registration materials and more. Become a fan of NCTM on [Facebook](#) and follow NCTM on [Twitter](#). Also, be sure to check out NCTM's new [Social Media Dashboard](#).

STEM CAREERS

Opportunities for the future in STEM careers are growing and GROWING AND GROWING!

"There is a significant gap between the kind of graduates the U.S. is producing and what the American economy needs today and in the future," said officials at the Partnership for A New American Economy, in a statement. "U.S. companies are hungry for talent with degrees in STEM and these jobs are increasing three times faster than jobs in the rest of the economy. However, these positions are the hardest to fill because of the dearth of native-born Americans with these degrees." Paul McDougall, InformationWeek May 23, 2012, Debra Auerbach, AOL Jobs Contributor posted April 9, 2012 her list of the top STEM jobs in demand in 2012 are Civil Engineers, Medical Scientists, and Environmental Engineers with mathematics listed as a top skills requirements.

How are math educators meeting these challenges? What do you need to meet these challenges? Are you interested in finding Professional Development and other opportunities in this area? A few online resources are listed below.

[Siemens STEM - Webinars](#)

[SC STEM Learning Group](#)

Useful Weblinks

[The MathNerds archives](#) Contains all the questions that have been answered by the MathNerds. Often the same question gets asked several times; see if your question is already answered in the archives!

[Why is m used for slope?](#) Another popular request: why do we use the letter "m" for the slope of a straight line?

[Ask Dr. Math](#) A very large archive and good search engine. The Dr. Math FAQs are especially good.

[Math Forum](#) A very large site with lots of good information for teachers (also useful for parents). Lesson plans. Internet resources. Problem of the week.

[Mudd Math Fun Facts](#) A collection of over 100 fascinating math tidbits that lead into broader areas of mathematics.

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Common Core State Standards

A main focus for upcoming professional development for most math educators will be the Common Core State Standards. 2012 - 2013 will be another transition year for the implementation phase of CCSS in South Carolina. When math educators get together the conversation inevitably turns to CCSS.



Core Math Tools is a downloadable suite of interactive software tools for algebra and functions, geometry and trigonometry and statistics and probability. The tools are appropriate for use with any high-school mathematics curriculum and compatible with the Common Core State Standards for Mathematics in content and mathematical practices. Core Math Tools sessions will also be offered at

NCTM's Regional Conferences.

<http://www.nctm.org/resources/content.aspx?id=32702>



At NCTM's [Regional Conference](#) in Chicago, math educators can choose from a variety of common core-aligned activities, and also hear from experts on what the standards mean for your classroom. Sessions include "Applying the Common Core State Standards" and "Connecting Dots across the Curriculum by Using Common Core Standards," amongst others. Use the [Online Conference Planner](#) to find more on CCSS and other essential topics, such as technology, response to intervention, differentiated instruction and assessment.

CCSS Resources

South Carolina State Department of Education Support Site

<http://scde.mrooms.org/index.php?page=27424>

Smarter Balanced Assessment Consortium

Common Core State Standards Tools & Resources | Smarter Balanced Assessment Consortium including the Common Core State Standards for Mathematics (pdf)

http://corestandards.org/assets/CCSSI_Math%20Standards.pdf

A yellow rectangular advertisement for Scholastic. At the top left is the Scholastic logo. The main headline reads "FINALLY. MATH DONE RIGHT!". Below this is a list of three features, each preceded by a red checkmark: "PUZZLES that teach problem solving.", "DOWNLOADABLE worksheets and laminates.", and "INTERACTIVE, animated books, and more!". To the right of the text is a cartoon illustration of a superhero character with glasses, wearing a blue suit and a yellow cape, holding a yellow pencil. At the bottom, it says "VISIT GREGTANGMATH.COM" in large red letters, and "Scholastic Book Clubs" in smaller black text below that.

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First Time Conference Attendees



The 2012 annual SCCTM Conference was a huge success. Many thanks go out to the sponsors of SCCTM, to the speakers, to the board, and to the attendees. Conference time is exciting, but it's especially exciting for first timers. We heard from some of them and would like to share with you what they had to say.

"I enjoyed my time at the Math Conference in Myrtle Beach, S.C. There were so many great classes to chose from that it was hard for me to pick. I got a lot out of the keynote speakers and looked forward to bringing back some of the ideas to my classroom. It was a great way to re-energize myself and hear from other math teachers as well. I look forward to the next one!"- Heather Willis

"I very much enjoyed the conference—it was the perfect rejuvenating tool to get me re-motivated and excited to teach my students new and innovative ideas and strategies for mathematics. All sessions were great, but I attended the mini course on Tabor Rotations and it was WONDERFUL. I couldn't have asked for a better experience." - Amy Carlson, Mathematics Teacher, C.E. Murray Junior/Senior High School, Williamsburg County School District

"I thought the conference was phenomenal! There were so many great ideas shared and so many different strategies shown. My only complaint is the timing of the sessions.....so many of them overlapped. I wish there was a set schedule, like session one was from 8 to 9, and session two was from 9:30 to 11, or whatever. That would also allow for some time in between to visit the vendors. I felt so rushed going through all of the vendors. But other than that, what I took away from it was awesome!" - Shelly Walker, Spartanburg



SCCTM Award for Outstanding Contributions to Mathematics Education Dot Hardin



Bill Whitmire, Cindy Parker, Dot Hardin

The 2012 winner of the South Carolina Council of Teachers of Mathematics Award for Outstanding Contributions to Mathematics Education is Dot Hardin. Dot has taught school for forty-two years with thirty-nine of those years in the state of South Carolina. She has taught all levels of middle school mathematics in the 6th, 7th, and 8th grades. She was selected as Teacher of Year four times: once at Lakeview Middle, twice at R. C. Edwards Middle, and once at White Knoll Middle.

Dot has held numerous leadership positions. She served as a South Carolina Lead Teacher of New Standards Project on Portfolios (attending conferences and conducting training sessions in New Mexico, Massachusetts, and California). She co-authored student and teacher handbooks entitled *Using Portfolios in the Middle School Classroom* for the State Department of Education. She served on the committee to rewrite assessment standards for South Carolina and worked on a committee to review benchmark and PACT assessments. She served as Math Department Chair at White Knoll Middle and Pleasant Hill Middle and served on the Teachers' Advisory Council in Lexington 1.

While in Pickens County, Dot helped organize the Anderson-Oconee-Pickens Council of Teachers of Mathematics/Science. Working with the AOP HUB, she helped plan local yearly conferences and presented workshops. She served as president of this group for two

years. When Dot was teaching at R. C. Edwards, she developed mathematics lessons that emphasized data analysis based on the content of sports cards. She contacted Pro Set Sports Cards for information and permission to use their materials in her classroom. In 1990, she was invited to participate in an educational task force sponsored by Pro Set. Dot was flown to Dallas where she was greeted by a Pro Set executive and taken to her hotel in a stretch limousine. She was one of five teachers from across the country to participate in this forum along with representatives from the business world. Using her baseball lesson plans, she was a national winner of the 1997 Presidential Award for Excellence in Mathematics and Science Teaching.

Math Counts is another of the areas in which Dot Hardin has excelled. She worked with the Math Counts students at R.C. Edwards Middle School where the team always did very well on both the regional and state levels. At Pleasant Hill Middle School she has been the head of the Math Counts program. Her team has performed so well that one of her students made the state team and participated in the national competition.

Some of Dot's colleagues have described her as an exceptional teacher who implemented innovative and entertaining solid mathematics programs that motivate students to learn. She has always been willing to help fellow teachers by sharing teaching techniques, practical applications, and professional development opportunities. While many teachers would seek the "lime light" for themselves, Dot has always found ways to include others in her endeavors. She continually puts the development of her students and fellow teachers first.

In addition to teaching mathematics, Dot served as Student Council Advisor for several years at R. C. Edwards Middle School. Dot and her Student Council hosted the District Three Rally which is a job usually done by a high school teacher. She was selected as the South Carolina Student Council Advisor in 1996.

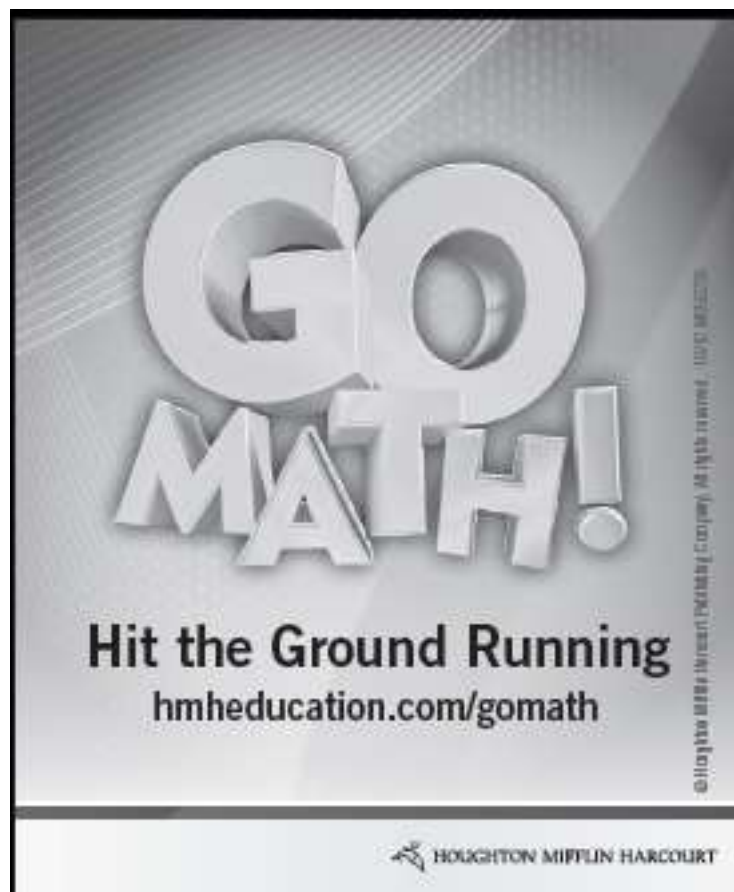
Dot has been a member of SCCTM since 1978. During the organization's yearly conferences, she has presented numerous sessions and workshops. She has served on the SCCTM Advisory Board and has held the following offices: Vice-President of Middle Schools, President-Elect, President, Past-President and Program Chair. She has been an active member of NCTM and has attended several regional and national conferences.

Everyone who knows Dot understands that she feels that teaching is one of the most challenging yet fulfilling occupations in

today's society. To Dot, a teacher should be a guide, an overseer, a confidante, a friend, a disciplinarian, and a conveyor of knowledge rolled into one caring individual.

In her 43rd year in education, Dot Hardin is still passionate about teaching. SCCTM is proud to have been able to honor Dot Hardin with the 2012 Award for Outstanding Contributions to Mathematics Education

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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 this [contact form](#).

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, whose links are included, and see our sponsors' ads in our periodic publications. As a member, please be sure to let these sponsors and contributors know you appreciate their support.

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As those of you, who attend the Fall Conference and Annual Business Meeting, know fabulous Door Prizes are given at these events. These are donated by exhibitors, vendors, companies and individuals.

SCCTM would like to express our appreciation to the following for donating Door Prizes at the October 2012 Fall Conference:

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Diversity Recruitment Manager Needed

Math or Science Background



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The Governor's School for Science and Math Foundation is seeking an experienced Diversity Recruitment Manager for the school's new statewide engineering program, Accelerate, and its statewide residential program in Hartsville. A four-year degree is required and a background in science or math is preferred.

The Diversity Recruitment Manager would raise awareness of GSSM and Accelerate among diverse populations, recruit students to the Accelerate program and to GSSM's residential program, and serve as a dynamic ambassador of the school, its students, faculty and alumni.

The individual selected will establish relationships with school districts, schools, education leaders, community associations, churches and other organizations representing minority populations. Statewide travel is essential with some evening and weekend work/travel as well.

The individual will need to be a skilled communicator, relationship builder, presenter and community advocate for the programs. They will work as a member of a small team and will be required to play a role in the development and execution of special events, fundraising events and legislative events.

5-7 years of experience preferred.

Salary range: Mid to upper 40's

Location: Columbia, South Carolina

Contact: Robyn Ezzell rezzell@fgp.com