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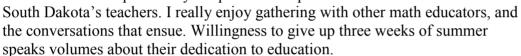
(Talking Leaf)

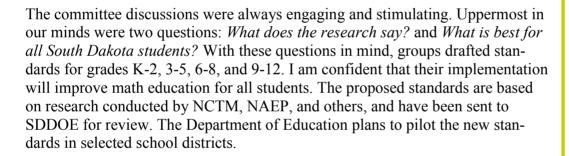
South Dakota Council Teachers of Mathematics Newsletter

Presidential Ponderings

I woke up this morning to the rumble of thunder. The sky was cloudless and blue. What's going on? It was the roar of Harleys on the road to Sturgis. That's how I know that the first day of school is just around the corner. It's been a great summer—filled with fun, friends, and yes, math projects.

Over 50 math educators gathered in Pierre during July to revise South Dakota's Mathematics Content Standards. As always, I am amazed and impressed by the passion and professionalism of





In June, more than 30 teachers attended SDCTM's Summer Symposium to learn about *Geometer's Sketchpad*. Dr. Rocky Von Eye provided information, ideas, and time to explore during the day-long symposium held at DWU. We plan to bring back the annual symposium and need suggestions for topics. What would you like to see for next year's event? Please send your ideas to symposium chair-persons Steve Caron and Brenda Danielson.

Speaking of ideas, please consider presenting a session at February's SDCTM/SDSTA Professional Development Conference. Each and every one of you does something in your classroom that would be of interest to others. Think about some of your great classroom ideas and put together a session for teachers at your grade level. You can count on a friendly and supportive audience. A successful conference depends on quality sessions! Speaker proposal forms are available online at http://www.sdctm.org. Proposals are due October 15th. It's never too early to start planning for the conference. This year's dates are Feb. 4-6, 2010.

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Calendar Notes:

- Daktronics Outstanding Math Teacher Appl Due 10/28/09
- SDCTM/SDSTA Speaker Proposals Due 10/15/09
- SDCTM/SDSTA Advance Registration Due 1/20/10
- SDCTM/SDSTA Feb 4-6, 2010



Presidential Ponderings, cont.

This year, the conference banquet will feature a new award. The first annual Outstanding Mathematics Teacher Award will be presented by Daktronics of Brookings, SD. Thanks to the efforts of Paul Kuhlman, South Dakota's Teacher of the Year, the award recognizes a middle or high school math teacher. Look for application information elsewhere in this newsletter. Information is also available online at http://www.sdctm.org.

"The first annual Outstanding **Mathematics** Teacher Award will be presented by Daktronics..."

I'm always a little wistful about the end of summer. I treasure the extra time to relax and refresh. I enjoy the summer smells and beautiful weather. But I'm also excited about the upcoming school year. I love new pencils, and the smell of new crayons. I appreciate the infinite possibilities contained in a blank spiral notebook. I look forward to new insights, and yes, even the challenges of working with teens.

Just like the rumble of thunder portends a coming rain, the roar of motorcycles presages the start of another school year (although hopefully not a stormy one.) Best wishes for a great school year!

Looking Forward, Cindy Kroon SDCTM President



Clip and return the ad below with your conference registration to be entered in a special drawing.



Teachers: Looking for classroom-tested ideas for math and science?

- **National Speakers**
- Grade-level Sessions in Math
- Grade-level Sessions in Science
- **Demonstrations**
- Regional and SD Speakers
- **Sharing Sessions**

18th Annual SDCTM/SDSTA Joint Professional Development Conference

February 4-6, 2010



All indoors at the newly remodeled **Huron Events Center in Huron, SD**



Visit www.sdctm.org or www.sdsta.org for complete program and hotel information. Speaker Proposal and Advance Registration forms are also available on the websites.



2008 PAEMST Awardee

Becky Kitts received the 2008 Elementary Presidential Award for Excellence in Mathematics Teaching. This is the highest teaching award given for Mathematics and Science teaching. Becky teaches at St. Joseph Elementary School in Pierre, SD. She has been teaching for 8 years with the last 3 being in her present position. She presently teaches 3rd grade. She has also taught 1st and 2nd grades at Blunt, SD.

2009 PAEMST State Finalists

Deb Snook, Tom Berg, and Lori Keleher are state finalists for the 2009 Secondary Presidential Award for Excellence in Mathematics Teaching. This is the highest teaching award given for Mathematics and Science teaching.

Deb Snook teaches at Phillip High School. She has 13 years of teaching experience with 8 years of it at Phillip. She teaches Geometry, Algebra II, Trigonometry, Pre-Calculus, Calculus, and Physics. She has received the SDSMT Award for Outstanding Teaching.

Tom Berg teaches at Mitchell High School. He has been teaching for 22 years with the all of it in his present position. He presently teaches Algebra I and II. He has previously taught Functions, Statistics and Trigonometry and Applied Math I, II, and III.

Lori Keleher teaches at Miller High School. She has been teaching for 13 years with the last year being in her present position. She presently teaches Geometry, Algebra I and II. She has also taught at Wolsey-Wessington High School.

Nominations for 2010 PAEMST

Know a Great Elemenatry Math Teacher? Nominate him or her to receive the Presidential Teaching Award!

We're looking for outstanding K-6 math teachers for the 2010 Presidential Awards for Excellence in Mathematics and Science Teaching. The awards are sponsored by the White House and administered by the National Science Foundation.

Every year up to 108 National Awardees each receive a \$10,000 award, a paid trip for two to Washington, DC to attend a week-long series of networking opportunities and recognition events, and a special citation signed by the President of the United States.

The program is now accepting nominations of K-6 teachers for the nation's highest honor for mathematics and science teachers. Anyone can nominate a teacher. Teachers should submit completed application materials by May, 2010. For more information, including nomination and application forms, please visit www.nsf.gov/pa or www.sdctm.org and click on the awards link.

Congratulations to Becky Kitts, 2008 PAEMST Awardee and Deb Snook, Tom Berg & Lori Keleher, 2009 PAEMST State Finalists!!!

Nominate an outstanding elementary teacher for 2010 PAEMST.



"....a first prize of \$5000 for the top student and \$5000 for the math department..."

Who Wants to Be a Mathematician?

The American Mathematical Society is organizing a nationwide *Who Wants to Be a Mathematician* contest for high school students with a first prize of \$5000 for the top student and \$5000 for the math department of the student's school. The contest will take place in San Francisco on January 14, as part of the Joint Mathematics Meetings. There is no registration fee to take part. The AMS will reimburse each contestant and one parent/guardian for travel to San Francisco, as well as room and board for two nights.

If you'd like to participate, email paoffice@ams.org with the subject line "National WWTBAM" and the AMS will email you more details about the contest along with the qualifying test. In the body of the message, please include your:

Name

School

Phone number

Courses taught this semester

Deadline for return of the qualifying test: Oct. 20

The webpage for the national contest is:

http://www.ams.org/wwtbam/national/index.html

http://www.ams.org/wwtbam/national/more-info-nctm-leaders.pdf

Mike Breen AMS Public Awareness Officer and Host of *Who Wants to be a Mathematician* myb@ams.org

Area Math Competitions

Many SD universities offer a competition for high school math (and sometimes science) students. I have gathered dates and contact information for some. If you know of others (or if yours is not included) please contact me and I'll be happy to include them in the next issue.



Location	Date	contact information		
SDSU	10/31/09	Don Struck	donald.struck@sdstate.edu	
NSU	4/14/10	Dr. A. Elkhader	elkhadea@northern.edu	
USD	4/24/10	Sandi Shumaker	sandi.shumaker@usd.edu	
SDSMT	5/10/10	Julie Dahl	julie.dahl@sdsmt.edu	

DAKTRONICS

Daktronics, in Conjunction with the South Dakota Council of Teachers of Mathematics, Announces Daktronics Outstanding Mathematics Teacher Award

BROOKINGS, S.D. - September 8, 2009 - Daktronics and the South Dakota Council of Teachers of Mathematics have teamed up to offer the first annual Daktronics Outstanding Mathematics Teacher Award in the state of South Dakota. The Daktronics Outstanding Mathematics Teacher will receive a plaque and a \$1,000 cash award. The monetary award will support the winner's math teaching efforts with equipment or to assist in attending a conference or workshop.

"The Daktronics Outstanding Mathematics Teacher Award is an excellent opportunity for math educators in South Dakota. Through this award, we can engage teachers and encourage growth in both the teacher and, ultimately, the students," said Tracey Deatherage, Daktronics Recruiting Manager.

South Dakota middle and high school teachers, who spend at least 50 percent of their schedule teaching math, are eligible for this award. Interested educators should visit http://www.sdctm.org/ for detailed application information. Applicants should e-mail their completed application packet to paul.kuhlman@k12.sd.us by October 28.

About Daktronics

Daktronics has strong leadership positions in, and is the world's largest supplier of, large screen video displays, electronic scoreboards, computer-programmable displays, digital billboards, and control systems. The company excels in the control of large display systems, including those that require integration of multiple complex displays showing real-time information, graphics, animation and video. Daktronics designs, manufactures, markets and services display systems for customers around the world, in sport, business and transportation applications. For more information, visit the company's World Wide Web site at: http://www.daktronics.com, e-mail the company at sales@daktronics.com, call (605) 697-4300 or toll-free (800) 325-8766 in the United States or write to the company at 331 32nd Ave. PO Box 5128 Brookings, S.D. 57006-5128.



Daktronics Outstanding Mathematics Teacher Award

October 2009

Daktronics, in conjunction with the South Dakota Council of Teachers of Mathematics, is pleased to announce the first annual Daktronics Outstanding Mathematics Teacher Award in the state of South Dakota. The recipient of this award receives a plaque and a \$1000 cash award to support the award winner's efforts to teach mathematics with equipment or perhaps help to attend a conference or workshop. Middle school and high school teachers, who spend at least 50 percent of their schedule teaching mathematics, are eligible for this award. Application information is available at http://www.sdctm.org/

AWARD SUBMISSION REQUIREMENTS

- 1.) A maximum two page, 12 font resume, which includes the following:
 - a) Personal information, including name, telephone numbers, email addresses, etc.
 - b) Beginning with the most recent, list colleges and universities attended including post-graduate studies. Indicate degrees earned and dates of attendance.
 - c) Beginning with the most recent, list teaching employment history indicating time period, grade level and subject area.
 - d) Beginning with the most recent, list professional association memberships including information regarding offices held and other relevant activities.
 - e) Beginning with the most recent, list staff development leadership activities or other professional activities.
 - f) Beginning with the most recent, list awards and other recognition of your teaching.
- 2.) A maximum two page, 12 font, double spaced, personal essay that includes but is not limited to the following topics: 1.) Describe how you have inspired students in your mathematics class. 2.) Describe innovative teaching techniques involved in your classes 3.) Describe what types of technology are used in your class. 4.) Describe any professional development, as it pertains to mathematics, you have been involved in. 5.) Describe how you have helped students attend classes/workshops/contests/quiz bowls that pertain to mathematics or engineering or how you have helped students incorporate mathematics outside the classroom. (For example, MathCounts, math club, etc.)
- 3.) Provide 4 letters of recommendation one each from an administrator, parent, colleague, and student or former student. Recommendations must be dated and contain <u>contact information for the writer</u>. They are limited to one page, double spaced, one inch margins, and must be in 12 font. It is important that the information be as detailed as possible to adequately evaluate each application/nomination.
- 4.) The completed resume and recommendations need to be included in one file in either a word or PDF file in the order they are outlined above and emailed to Paul Kuhlman at paul.kuhlman@k12.sd.us.

The packet must be received by OCTOBER 28TH, 2009

5.) The recipient for the 2010 Daktronics Outstanding Mathematics Teacher Award will be announced at the SD Science Teachers Association/SD Council of Teachers of Mathematics meeting in Huron on February 6, 2010.



Pin the Radian Angle on the Unit Circle

After attending Cindy Kroon's Pi Day Activities session at the SDCTM conference in February 2008, I came home full of ideas. One of her Pi Day activities involved a silly game of pinning the radius on a circle (just like pin the tail on the donkey). This idea inspired me to add my own twist to the fun. On small pieces of cardstock, I placed radian measures of angles. $(\frac{\pi}{3}, \frac{-5\pi}{6}, 5\pi, \frac{17\pi}{4}, \text{ etc.})$ Then, I dusted off my old polar chalkboard, found some blindfolds, and created a point system. Dividing the class into two groups, I explained that after spinning a blindfolded student 3.14 times (or so), that student, without even looking at the measure of the angle, would try to pin the angle measure to the circle in the correct spot. If the student happened to place it in the exact spot, the team would receive 3 points. If the student missed but was in the correct quadrant, one point would be received and his/her team would have a chance to earn a second point if they could position it in its exact position. If the team was incorrect, the opposing team could receive one point if they put the angle in the correct spot and explained why they were correct. Teams would rotate until everyone had a chance to participate.

Throughout the game, I encouraged the teams to work together and talk through where the angle should be placed. The students' reasoning was fun to hear and a bit enlightening as well.

My high school students loved a chance to participate in this new spin on a childhood favorite. Yours will, too!

Jann Saxon Dell Rapids High School Jann.saxon@k12.sd.us "This idea inspired me to add my own twist to the fun."

Share the Classroom Treasures

"Sharing" the treasures was so popular last year, that it will be back for this year's conference. As you sort through your treasures and "unpack" for the school year....don't forget about the conference. Start a "save it for the conference" box and plan to bring all your "extras" to the *Share the Classroom Treasures*, scene 2.



PLEASE - No Textbooks or broken/non-working equipment. Although it may feel like yours, make sure it is. If it's marked "School Property", please leave it in school.

Back by popular demand!!





Editor's Note:

There are many connections between math and science. Is there somebody in your building doing a science project that you could integrate into your classroom? Here's an O[†]Gorman project with applications for quadratics, parabolic motion, etc. What's in your building? Tell us about the exciting things YOUR students are doing!!!

smcquade2@sfcss.org

Look for a possible presentation by $O^{\dagger}G$'s rocket team at the SDCTM/SDSTA Conference

Visit www.rocketcontest.org/ for information about the Team America

O[†]Gorman Rocket Team

The O[†]Gorman rocket team will soon be competing against the top 100 teams in the country at the Team America Rocketry Challenge.

On April 2, 2009, the rocket team qualified for the national competition by achieving a qualifying score of 9.34. This score will allow the team to attend nationals for the second year in a row.

Rocket team members Joshua, Dong Yun, Jonathan, Caleb, Matthew, and Aaron, along with coach Ms. Jane Schnell, will all be flying to Virginia for the competition, which takes place from May 15 to May 17.

According to Schhell, this year the team expects to improve upon last year's results.

"Last year was our first year at nationals," said Schnell. "We were so excited and we went to compete and see what it was all about. Now, because of our experience, we're hoping to do better this time."

O[†]Gorman's rocket team will be competing against teams from 29 states and Washington D.C. to try and win not only scholarship money, but also the opportunity to contend against European students at the international air show in Paris.

The competition will be challenging, partly due to its unpredictability.

"It's hard out there because it's the best 100 teams from in the nation," said Joshua, who along with Dong Yun, attended the competition last year as well. "Anything can happen."

However, the team plans on doing the same thing at nationals that they do all season.

"Our basic strategy is the same for the whole season: build and design a rocket that you think is going to be closest to a height of 750 feet tall and stay in the air for 45 seconds," said Schnell. "And you also have to bring your egg home safely."



SDCTM's own Cindy Kroon is the team's qualifying judge!

Becky, Staff Writer Knight Scroll

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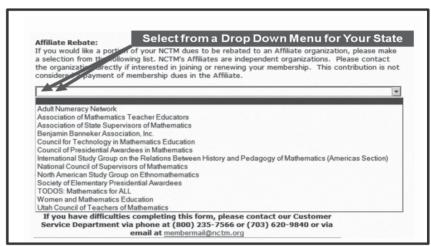
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Why Join the National Council of Teachers of Mathematics?

With nearly 100,000 members and more than 230 Affiliates, NCTM is the world's largest organization dedicated to improving mathematics education in prekindergarten through two-year and teacher-education colleges. Join today and you'll know why this dynamic group of math educators relies on NCTM for the best in lessons, resources, and activities for the classroom, as well as peer networking and professional development!

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FREE subscription to one of the following award-winning journals, plus complete access to the full online archives for your journal. Select from:

- Teaching Children Mathematics (PreK-6)
- *Mathematics Teaching in the Middle School* (5–9)
- Mathematics Teacher (8–14) **or**
- Journal for Research in Mathematics Education.

FREE member exclusive online resources—chock full of lessons, activities, and resources, including sample problems, interactive applets and multimedia for your students, and comprehensive topic collections. Resources also include a free subscription to *ON-Math*, NCTM's online-only school journal and full access to NCTM's e-standards.

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2010 SPEAKER / PRESENTER PROPOSAL FORM

Joint Conference of South Dakota Council of Teachers of Mathematics (SDCTM) and South Dakota Science Teachers Association (SDSTA)

Huron South Dakota February 4-6, 2010

Submission of this form constitutes acceptance unless otherwise notified.

OFFICE USE ONLY: Session No.____ Day ____ Time ____ Location___ Repeat Session ____

All South Dakota speakers must also register for the conference. Use this form (page 2) or download from www.sdctm.org or www.sdsta.org

(Last Name) (First Name) (Middle initial) (Last Name) (First Name) (Middle initial) (Name of School/Affiliation) (Name of School/Affiliation) Preferred Address: (circle one) home **A-V** equipment request: Only requested equipment will be provided (Address) LCD projector Overhead projector External speakers (City) (State) (Zip Code) DVD player VCR player One screen will be provided for each room. (Work Phone) Speakers are expected to bring their own computer and software. (Home Phone) Speakers are encouraged to bring their own projectors. The conference does not guarantee compatibility of (Email) electronic components. Title of presentation: Description (max. 50 words): Circle grade level: K-2 3-5 6-8 9-12+Length of presentation: one hour two hours Day of presentation: Friday Saturday Either day Both days Speakers are requested to provide handouts for 30 on a first come, first served basis. Please return this form by **October 15, 2009** to: Jean Gomer Box 96 email jean.gomer@k12.sd.us White, SD 57276 fax (605) 629-3701 I agree to comply with the guidelines in the "Minimum Safety Guidelines for NSTA Presenters and Workshop Leaders:" Modified during my presentation. NSTA Minimum Safety Guidelines are located online at http://www.nsta.org/coru/safety.html 02/09/09 CK

Contact SDCTM with any special needs requests as defined by ADA by emailing Jean Gomer at jean.gomer@k12.sd.us before October15, 2009

All South Dakota speakers must also register for the conference: Use this form (page 2) or download from www.sdsta.org or w

SDCTM/SDSTA JOINT SPRING CONFERENCE

Crossroads Events Center, Huron South Dakota February 4-6, 2010

Conference information and program booklets will be available online at www.sdctm.org and www.sdsta.org

ADVANCE REGISTRATION --

Please print clearly. Postmark by January 20, 2010

Name Address			
City, State, Zip			
School/District		E-mail	
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1. SDCTM/SDSTA MEME Please check the appropriate categor	` ,		ization
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High School \$20 Post-Secondary \$20	-	High School \$ Post-Secondar	520 m \$20
Student \$5	-	Student \$5	1y \$20
Retired \$5	-	Retired \$5	
Other \$20	-	Other \$20	
SDCTM or SDSTA Member One day \$40 Two days \$60	Non-Member One day Two days	\$70 \$90	Student Member One day \$15 Two days \$25
Check here if this is the first-ti	me you nave attenaea tne	SDC1M/SDS1A Join	n Conjerence.
3. PAYMENT Make checks payable to SDCTM. Purchase orders will NOT be accept	ed.	4. SEND TH Steve Caron 907 South 16 th S Aberdeen, SD 5	
Membership SDCTM \$ Membership SDSTA \$ Registration \$ Friday Night Banquet (\$20 each) \$		Email: steve.care	
TOTAL ENCLOSED \$	d by January 20, 2010		ere if you have also submitted a sal form for the 2010 Conference.

"JIM GOEHRING SCHOLARSHIP FOR FUTURE LEADERS"

"The Jim Goehring Scholarship for Future Leaders" has been established to encourage new teachers of math and science to become professionally involved on the state level. The scholarship, which is good for a free one or two day registration at the Joint Conference of the South Dakota Council of Teachers of Mathematics and the South Dakota Science Teachers Association is available to any teacher who meets each of the following criteria:

- Is a K-12 teacher of math or science who is in the first year of teaching in SD
- Belongs to SDCTM and/or SDSTA. Applicants must pay their own dues to the chosen organization

The application process is simple. Fill out the form below, have it signed by the building principal, and mail it to Steve Caron along with the regular conference registration form which is available in this issue and at www.sdctm.org.

2009-2010 APPLICATION "JIM GOEHRING SCHOLARSHIP FOR FUTURE LEADERS"

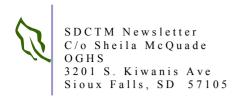
Name	
School District	
Teaching Assignment	
I am joining Sl I am enclosing	member of SDCTM SDSTA (Circle one or both) DCTM and/or SDSTA (Circle one or both) a check for: \$5.00 for Elementary Math and/or \$5.00 for Elementary Science \$20.00 for MS/HS Math and/or \$10.00 for MS/HS Science
(Name)	is in his/her first year of teaching in SD at School District during the 2009-2010 school year
and is thus eligible for "The Ji	m Goehring Scholarship for Future Leaders."
Signed:	Building Principal



Print a copy of this form. Mail with check payable to SDCTM to:

Diana McCann 41876 Apple Tree Road Springfield, SD 57062

Name	
School Name	
Subjects or Grades Taught	
Addresses	
Home	
School	
Mailing Address: HomeSchool	l
Home Phone	
School Phone	
Fax Number	
E-mail	
Membership categories (Check only one)	
Elementary School \$5.00 Middle School / Junior High \$20.00 High School \$20.00 Post Secondary \$20.00 Retired \$5.00	
Student \$5.00	



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www.sdctm.org

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