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(T a l k i n g L e a f)

South Dakota Council Teachers of Mathematics Newsletter

Presidential Ponderings

Welcome back to another school year. By now, everyone is back into the routine of teaching, writing lesson plans, attending IEP meetings, etc., etc. Another task to add to the routine this year should be getting to know the Common Core State Standards (CCSS). How do you feel concerning the new CCSS? Do you feel confused? Maybe that's a good thing. In the book Top 20 Teachers, it states "If there is no confusion, there is no learning." I had the opportunity to attend the Common Core Professional Development summer pilot hosted by the SD Department of Education. I commend the DOE for taking the initiative to provide training concerning the CCSS. They will continue to provide professional development every year until full implementation of the CCSS. Training sessions will be held in Rapid City, Aberdeen, and Sioux Falls during the 2011-12 school year.



Unless the DOE makes drastic changes to the training format, if you attend the training sessions with the goal of obtaining a more in depth knowledge of all of the new standards, you will be disappointed. The DOE training deals with the process necessary to understand, teach, and assess learning of the standards. After the training you will be able to unpack (now called disaggregate) the standards, develop units to teach the standards, and develop assessments for the standards. Each training site will use different standards to learn the process. Eventually, the work done at the training sessions, including the unpacked standards, will be available to all teachers. The registration deadline for this year's CCSS professional development is October 14.

South Dakota, along with 30 states, has joined the Smarter Balanced Assessment Consortium (SBAC). SBAC is developing assessments that will replace the current DSTEP test in 2015. SBAC recently released the Consortium's first draft of the content specifications for math and ELA/Literacy that will serve as a basis for the SBAC system of summative and interim assessments and its formative assessment support for teachers. There is an online survey concerning the content specifications. Gay Pickner from the SDDOE is also soliciting comments regarding the specifications. If you want to provide comments and feedback, please email Gay no later than September 14. She will compile a list of comments and report them to SBAC. A revised draft of the content specifications will be released in October. The math content specifications materials are available at: <http://www.k12.wa.us/SMARTER/Resources.aspx>

SUMMER 2011

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Calendar Notes:

- *Daktronics Outstanding Math Teacher Applications due 12/1/2011*
- *SDCTM/SDSTA Joint Conference February 2-4, 2012*
- *PAEMST Applications due May 1, 2012*
-

continued



Presidential Ponderings, *continued*

“I think it is important to remember that we are not alone in South Dakota.”

I think it is important to remember that we are not alone in South Dakota. Teachers in 40+ other states are in the same predicament that we are. It may be wise to investigate what other states have done concerning implementation of the CCSS. I think it also important to understand the goal of the CCSS. Hopefully the end result of implementation of the new standards will be South Dakota students graduating mathematically prepared to continue their education or enter the work force.

Jay Berglund
SDCTM President



Share the Classroom Treasures

“Sharing” the treasures has been quite popular at the SDCTM/SDSTA Conference. As you sort through your treasures and organize your life....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*.



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.



2011 PAEMST State Finalists for Math

Washington, DC Amy Boutchee, a mathematics teacher from Riggs High School in Pierre, South Dakota, Kristi Lutgen, a mathematics teacher from Deubrook Area Schools, White, South Dakota, and Deborah Snook a mathematics teacher from Phillip High School in Phillip, South Dakota have been named a state finalist for the 2011 Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST), the nation's highest honor for K-12 teaching in these fields.

The Presidential Awards is one way of honoring outstanding teachers for the excellent work they do each year in helping to keep the United States competitive globally in mathematics and science. They have the knowledge, skills, commitment, and determination to bring out the best in their students. Evaluation results show that teachers who receive the Presidential Award use that recognition, honor, and award funds to grow professionally and to help improve teaching and learning of mathematics and science in their schools, districts, and states by taking on the roles of leaders, mentors, and scholars in their communities.

Previous South Dakota Awardees have become leaders on the state mathematics standards writing committees, other committees at the state level, national committees for the National Science Foundation and leaders in the South Dakota Council Teachers of Mathematics. The 2011 Presidential Awardees teach 7th -12th Grades.

Awardees will be announced in the Spring of 2012 and will receive a citation signed by the President, a paid trip to Washington, DC, to attend a week-long series of recognition events and professional development opportunities, and \$10,000 from the National Science Foundation. More information can be found at www.paemst.org.



Diana McCann
SD Math PAEMST
Math Coordinator
diana@thecoganhouse.com

Nominations for 2012 PAEMST

Know a Great Elementary Math Teacher? Nominate him or her to receive the Presidential Teaching Award! We're looking for outstanding K-6 math teachers for the 2012 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 1, 2012.

For more information, including nomination and application forms, please visit www.nsf.gov/pa or www.sdctm.org and click on the awards link.

For more info
visit
www.nsf.gov/pa.



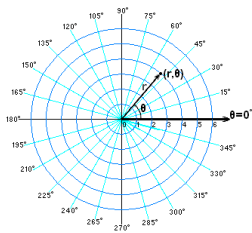
Round Robin Activities

Rectangular to Polar Round Robin

Student A receives an ordered pair in rectangular form and converts to polar form.

Student B takes A's answer and converts it back to rectangular form.

Do the answers agree? If not, find the error.



(2, -2) ans. $(2\sqrt{2}, 7\pi/4)$

(0, 1) ans. $(1, \pi/2)$

$(1, \sqrt{3})$ ans. $(2, \pi/3)$

$(-1/4, -\sqrt{3}/4)$ ans. $(1/2, 4\pi/3)$

(3, 8) ans. (8.54, 1.21)

(4, -7) ans. (8.06, 5.23)

Polar to Rectangular Round Robin

Student A receives a point in polar form and converts to rectangular form.

Student B takes A's answer and converts it back to polar form.

Do the answers agree? If not, find the error

$(3, \pi/2)$ ans. (0,3)

$(1/2, 3\pi/4)$ ans. $(-\sqrt{2}/4, \sqrt{2}/4)$

$(-1, -\pi/6)$ ans. $(-\sqrt{3}/2, 1/2)$

$(-2, 270^0)$ ans. (0,2)

$(4, 210^0)$ ans. $(-2\sqrt{3}, -2)$

$(14, 130^0)$ ans. (-9, 10.72)

Cindy Kroon
Montrose HS
cindy.kroon@k12.sd.us

Cindy Kroon
Montrose High School
cindy.kroon@k12.sd.us

Daktronics, in conjunction with the South Dakota Council of Teachers of Mathematics, is pleased to sponsor the 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 contact information for the writer. 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 **December 1st, 2011**

5.) The recipient for the 2012 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 3, 2012.**

2012 SPEAKER / PRESENTER PROPOSAL FORM

20th Annual Joint Conference of SDCTM and SDSTA

February 2-4, 2012

Crossroads Hotel/Huron Event Center

Huron, SD

1-800-876-5858

OFFICE USE ONLY:

Session No. _____

Day _____

Time _____

Location _____

Repeat Session _____

Submission of this form constitutes acceptance unless otherwise notified.

All speakers must also register for the conference.

Use this form (page 2) or download from www.sdctm.org or www.sdsta.org

(First Name) (MI) (Last Name)

(First Name) (MI) (Last Name)

(Name of School/Affiliation)

(Name of School/Affiliation)

Preferred Address: (circle one) work home

(Address)

(City) (State) (Zip Code)

(Work Phone) (Home Phone)

(Email)

Website <http://>_____

Include URL in program? Yes / No

Length of presentation: ___ one hour ___ two hours

Date of presentation: ___ Friday ___ Saturday

___ Either day ___ Both days

LCD projector? ___ YES ___ NO

Only requested equipment will be provided.

Speakers are encouraged to bring their own equipment.

The conference cannot guarantee compatibility of
electronic components

**Speakers are expected to bring their own
computers and software.**

Grade level of presentation: K-5 6-8 9-12

(please circle only one)

Title of presentation: _____

Description (max. 50 words): _____

If you have a last minute change or cancellation (after midnight Feb. 2, 2012) please call Crossroads Convention Center 1-800-876-5858

Speakers are requested to provide handouts for 30 on a first come, first served basis.

Return this form by **OCTOBER 15, 2011** to:

Jean Gomer

Box 96

White, SD 57276

email: jeanann@itctel.com

Modified
02/09/11
CK

I agree to comply with the guidelines in the "Minimum Safety Guidelines for NSTA Presenters and Workshop Leaders:" during my presentation. NSTA Minimum Safety Guidelines are located online at <http://www.nsta.org/coru/safety.html>

Signature _____

Date _____

Contact SDCTM with any special needs requests as defined by ADA by emailing Jean Gomer at jeanann@itctel.com before October 15, 2011

All speakers must also register for the conference:

Use this form (page 2) or download from www.sdsta.org or www.sdctm.org

Conference program information and booklets will be available for download from www.sdsta.org and www.sdctm.org

2012 SDCTM/SDSTA JOINT CONFERENCE

Crossroads Events Center, Huron South Dakota
February 2-4, 2012 1-800-876-5858

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, 2012

Name _____
Address _____
City, State, Zip _____
School/District _____ E-mail _____
Home phone _____ School Phone _____

Please check the appropriate categories for membership, conference registration, and payment.

1. SDCTM/SDSTA MEMBERSHIP(s) and DUES

Please check the appropriate categories. You may join one, both, or neither organization.

Begin/renew SDCTM (math) for one year

_____ Elementary \$5
_____ Middle School \$20
_____ High School \$20
_____ Post-Secondary \$20
_____ Student \$5
_____ Retired \$5
_____ Other \$20

Begin/renew SDSTA (science) for one year

_____ Elementary \$5
_____ Middle School \$20
_____ High School \$20
_____ Post-Secondary \$20
_____ Student \$5
_____ Retired \$5
_____ Other \$20

2. CONFERENCE REGISTRATION

Please check the appropriate categories. Noon luncheon is included for each day that you register.

NOTE: The Friday night banquet is NOT included. Banquet tickets may be purchased for \$20 each.

I will attend the conference on (check one): _____ Friday _____ Saturday _____ Both days

SDCTM or SDSTA Member

_____ One day \$50
_____ Two days \$75

Non-Member

_____ One day \$100
_____ Two days \$125

Student Member

_____ One day \$15
_____ Two days \$25

College credit will be available; information/registration available at the conference registration table.

3. PAYMENT

Make checks payable to SDCTM.
Purchase orders will **NOT** be accepted.

Membership(s) total \$ _____
Registration \$ _____
Friday Night Banquet (\$20 each) \$ _____

TOTAL ENCLOSED \$ _____

Requests for refunds must be received by January 20, 2012

4. SEND THIS FORM WITH PAYMENT

Steve Caron
907 South 16th Street School phone (605) 725-8208
Aberdeen, SD 57401 Home phone (605) 226-2292

Email: steve.caron@k12.sd.us

Advance registration must be postmarked by **January 20, 2012**

Please check here if you have also submitted a
speaker proposal form for the 2012 Conference.



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

Diana McCann
31133 Bon Homme Road
Tabor, SD 57063

Name _____

School Name _____

Subjects or Grades Taught _____

Addresses

Home _____

School _____

Mailing Address: _____ Home _____ School

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
- _____ Other \$20.00



SDCTM Newsletter
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