Teach With All Your Heart!

Joint Conference

South Dakota Science Teachers Association
South Dakota Council of Teachers of Mathematics

February 2, 3, & 4, 2017
Crossroads Hotel-Huron Event Center
Huron, SD

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Graduate Credit is available through DWU-Mitchell.

Next year’s conference will be February 8, 9, & 10, 2018.
Featured Speakers

BANQUET SPEAKER — Brad Fulton is a 2005 California Middle Schools Educator of the Year. He is known throughout the country for motivating and engaging teachers and students, Brad has co-authored over a dozen books that provide easy-to-teach yet mathematically rich activities for busy teachers while teaching full time for over 30 years. In addition, he has co-authored over 40 teacher training manuals full of activities and ideas that help teachers who believe mathematics must be both meaningful and powerful. Brad says "Who you teach matters more than what you teach." This means that until we reach the heart, we will struggle to teach the head.

OTHER FEATURED SPEAKERS

Eli Luberoff - is the Founder & CEO of Desmos Inc. At Desmos, we imagine a world of universal math literacy and envision a world where math is accessible and enjoyable for all students. We believe the key is learning by doing. To achieve this vision, we’ve started by building the next generation of the graphing calculator. Using our powerful and blazingly-fast math engine, the calculator can instantly plot any equation, from lines and parabolas up through derivatives and Fourier series. Sliders make it a breeze to demonstrate function transformations. It's intuitive, beautiful math. And best of all: it's completely free.

Mariann Dolnick - is a retired Cobb County teacher from Marietta, GA, with 33 years teaching experience in first through eighth grades. Mrs. Dolnick holds a Bachelor’s Degree in Elementary Education from Mercyhurst University in Erie, PA and a Master’s Degree in Early Childhood Education from Kennesaw State University in Kennesaw, GA. Since her retirement, Mrs. Dolnick has worked part-time at Pickett’s Mill Elementary, in Acworth, GA providing extra instructional support to students in math and reading through Georgia’s Early Intervention Program and Certified Tutoring Program.

Bill Badders – is a past NSTA President & is retired from the Cleveland Metropolitan School District in Cleveland, Ohio, where, for more than four decades, he was an elementary and middle school teacher, science resource teacher, and the director of the NSF funded Cleveland Math and Science Partnership. Badders devotion to science education is also evidenced by his involvement in numerous other professional organizations. Throughout his career, Badders has been honored for his contributions to science education. He received a Presidential Award for Excellence in Mathematics and Science Teaching (1992) and is a Fulbright Memorial Teacher Fund recipient (2000).

Sanford Research - Katie Grausam is a graduate student in the Basic Biomedical Sciences program at USD, completing her research at Sanford Research in Sioux Falls. With her mentor, Dr. Haotian Zhao, she studies the molecular mechanisms involved with the most common, malignant pediatric brain tumor, medulloblastoma. Using cutting-edge research techniques, including next-generation sequencing, her work is helping to improve the understanding of metastasis and tumor relapse after treatment.”
2017 Joint Professional Development Conference
South Dakota Science Teachers Association
South Dakota Council of Teachers of Mathematics

The meeting rooms for all sessions are in
The Crossroads Hotel/Huron Events Center

Program

Thursday, February 2, 2017
7:00 PM - 9:00 PM Evening Sessions (See Program)

Friday, February 3, 2017
7:00 AM - 4:20 PM Registration Open Pre-Function Area
8:00 AM - 5:00 PM Exhibits Open Pre-Function Area
8:30 AM - 11:20 AM Morning Sessions (See Program)
11:45 AM - 1:10 PM Friday Luncheon Prairie A, B, C (cost included in the registration fee)
1:30 PM - 4:20 PM Afternoon Sessions (See Program)
4:30 PM SDCTM Business Meeting Dakota C
SDSTA Business Meeting Dakota G
5:00-6:30 PM Social Hour Pre-Function Area
CASH BAR-Hors d’oeuvres sponsored by SDCTM & SDSTA
6:30 PM Friday Evening Banquet Prairie A, B, C (Cost is $25)

Saturday, February 4, 2017
7:00 AM - 11:20 AM Registration Open Pre-Function Area
7:00 AM - 8:00 AM Breakfast Meeting Salon
Presidential Awardees (Past & Present)
8:30 AM - 12:20 PM Morning Sessions (See Program)
12:30 PM - 1:20 PM Saturday Luncheon Prairie A, B, C (cost included in the registration fee)
1:30 PM - 3:20 PM Afternoon Sessions (See Program)
3:30 PM Joint SDCTM & SDSTA Boardroom
Executive Board Meeting
### SDSTA/SDCTM Joint Conference 2017 Planner

#### Thursday, Feb. 2, 2017

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<tr>
<th>Time</th>
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<td>Location: Prairie B or C</td>
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<td>Title: Sharing Session</td>
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#### Friday, Feb. 3, 2017

Remember to visit the exhibits in the Lobby and Hallways of the Crossroads Hotel.

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<td>Noon</td>
<td>Friday Noon Luncheon in Crossroads Hotel – Prairie A, B, C</td>
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<td>4:30 PM</td>
<td>SDCTM BUSINESS MEETING in Dakota C</td>
<td>SDSTA BUSINESS MEETING in Dakota G</td>
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<td>5:00 – 6:30</td>
<td>5:00 – 6:30</td>
<td>SOCIAL Hour</td>
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<td>6:30 PM</td>
<td>Friday Night Banquet in Prairie Ballrooms A, B, C</td>
<td>(Banquet Tickets Required, Cost is $25)</td>
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#### Saturday, Feb. 4, 2017

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<td>12:30 PM</td>
<td>Saturday Noon Luncheon in Crossroads Hotel – Prairie A, B, C</td>
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<td>Title: Wrap-Up</td>
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<tr>
<td>3:30 PM</td>
<td>SDCTM &amp; SDSTA JOINT BOARD MEETING in the BOARDROOM</td>
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</table>
Thursday 7:00pm

7:00pm-9:00pm Session: 1
Thursday Prairie B
Grade Level: K-12 Math

Presenter: Cindy Kroon
SDCTM President
Cindy.Kroon@k12.sd.us
www.sdctm.org

Math Sharing Session
Network with other math teachers! Share your favorite activities and lessons! Swap teaching ideas! Sharing math teaching ideas will be the focus of this session. Bring 25 copies of your favorite activity to share. Leave with ideas from other great teachers. Pizza for the first 25 people to attend!

7:00pm-9:00pm Session: 2
Thursday Prairie C
Grade Level: K-12 Science

Presenter: Liz McMillan
SDSTA President
Elizabeth.McMillan@sanfordhealth.org
www.sdsta.org

Science Sharing Session
Have you ever heard of sewer lice? This year's science sharing theme is gross science - come share one or more labs, experiments, or demos that might get a "gross" reaction or simply come to network, take some ideas back to your classroom, and enjoy a slice of pizza pie.

Friday 7:00am

Conference Registration Opens
Crossroads Lobby

Friday 8:05am

Conference Welcome
Session 3; Prairie A

www.sdsta.org
www.sdctm.org

SDCTM President Cindy Kroon and SDSTA Liaison Dr. Larry Browning will welcome conference goers through an IGNITE session: "Lessons Learned from NCAA Basketball“ and “The Co$t of Personal Power”

Friday 8:30am

8:30am-9:20am Session: 4
Repeats as Session 97
Friday Prairie A
Grade Level: K-5 Math

Mariann Dolnick
Featured Speaker
mariandolnick@gmail.com

Challenging Students to Think Critically
Mathematical Performance Tasks or Exemplars challenge students to apply their critical-thinking and problem-solving skills to complex problems. In this session, you will collaborate with others to think critically and solve various math problems. Take a step toward incorporating project based learning and differentiated problem-solving in your class.
# Friday 8:30am

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<tr>
<th>Time</th>
<th>Session</th>
<th>Grade Level</th>
<th>Subject</th>
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<tbody>
<tr>
<td>8:30am-9:20am</td>
<td>Session 5</td>
<td>6-12</td>
<td>Math</td>
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</table>
| **Featured Speaker** | Eli Luberoff | Desmos | eli@desmos.com
|                  |          | [https://www.desmos.com/](https://www.desmos.com/) |
| **Technology and Intellectual Need** | | | |
| Every math notation, every word, every technique, solved a problem for someone somewhere. In this session, we'll explore how to use technology to place students in that same situation of intellectual need. In doing so, we'll see how to transform some of the most frustrating and tedious tasks -- e.g. memorizing mathematical vocabulary lists -- into some of the most interesting. |

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<th>Time</th>
<th>Session 6</th>
<th>Grade Level</th>
<th>Subject</th>
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<tbody>
<tr>
<td>8:30am-9:20am</td>
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<td>9-12</td>
<td>Science</td>
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<tr>
<td><strong>Featured Speaker</strong></td>
<td>Brenda Walsh</td>
<td>NSTA District IX Director</td>
<td><a href="mailto:bwalsh@edenpr.org">bwalsh@edenpr.org</a></td>
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<tr>
<td><strong>Having Fun with Chemistry Formula Writing</strong></td>
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<td>Formula writing and naming is an essential skill in Chemistry. Help students practice with fun games and review sessions.</td>
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<th>Subject</th>
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<td>8:30am-9:20am</td>
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<td>K-5</td>
<td>Math</td>
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<tr>
<td><strong>Presenter:</strong></td>
<td>Li Sun</td>
<td>Augustana University</td>
<td><a href="mailto:Li.Sun@augie.edu">Li.Sun@augie.edu</a></td>
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<tr>
<td><strong>Making Wrong Right: Unlocking the Potential of Incorrect Answers</strong></td>
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<td>Do you have students who always have trouble in finding the correct answer? Get great ideas for using students’ incorrect responses as a springboard for inquiry. Attend this session, and you will walk away with some innovative perspectives regarding students’ incorrect answers.</td>
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<td>8:30am-9:20am</td>
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<td>9-12</td>
<td>Science</td>
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<tr>
<td><strong>Presenter:</strong></td>
<td>Tracy Moody</td>
<td>Sanborn Central</td>
<td><a href="mailto:Tracy.Moody@k12.sd.us">Tracy.Moody@k12.sd.us</a></td>
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<tr>
<td><strong>Simple and Sassy Science</strong></td>
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| This session will give examples of some very simple experiments to be conducted in a classroom with the focus being on questioning the students. It will encourage critical thinking of simple concepts!
### Friday

**8:30am**

8:30am-9:20am  
**Session: 8.5**  
**Dakota B**  
Grade Level: 5-12  
Math/Science

**Presenter:**  
Barbara Wielenga  
South Dakota State University  
Barbara.Wielenga@sdstate.edu

**Curriculum Development Incorporating STEM and the Oceti Sakowin Standards**

As a SDSU PhD Candidate, the presenter’s project involves sequencing the wild prairie turnip used by Native Americans. This session will include a presentation of the curriculum being designed and developed for grades 5-12 incorporating STEM and the Oceti Sakowin standards.

8:30am-9:20am  
**Session: 9**  
**Dakota C**  
Grade Level: K-5  
Science

**Presenter:**  
Lynda Venhuizen &  
Susanne Brokmeier  
South Dakota State University  
Lynda.Venhuizen@sdstate.edu

**Everything is Connected: Hands-on Human Ecology**

Help students understand their role in the delicate balance of people, natural resources and environmental quality with memorable, interdisciplinary games, simulations and problem-solving challenges. Build skills in scientific inquiry, data analysis and critical thinking, while fostering environmental stewardship.

**8:30am-9:20am**  
**Session: 10**  
**Dakota D**  
Grade Level: 6-8  
Science

**Presenter:**  
Betsy Schamber  
Madison Central Schools  
Betsy.Schamber@k12.sd.us

**Two Weeks at NIST!**

Come and learn about my experience spending 2 weeks learning and working with the scientists from the National Institute of Standards and Technology just outside Washington, DC! I will go through an overview of my experiences, as well as provide information on the application process, including requirements and benefits for those middle school science teachers interested in applying for the summer of 2017.

**8:30am-9:20am**  
**Session: 11**  
**Dakota E**  
Grade Level: 6-8  
Math

**Presenter:**  
Mandi Holbeck  
Armour School  
Mandi.Holbeck@k12.sd.us

**Buy a House!**

Students will go through the real-life experience of buying a house after watching an episode of House Hunters. The students will put a down payment on the house they choose to buy and then figure out the simple interest that will accumulate after a given amount of time. Students will also discover how the time affects the simple interest amount.

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**A limited number of Banquet tickets remain available. Purchase yours now before it’s too late.**
**Friday 8:30am**

8:30am-9:20am  
**Session: 12**  
**Dakota F**  
Grade Level: 6-8  
Science

**Presenter:** Michelle Bartels  
Hamlin Middle School  
Michelle.Bartels@k12.sd.us  
https://sites.google.com/site/bartelsscience/

**Google Classroom**  
Learn how to get started with Google Classroom. I’m not saying I have a paperless classroom, but Google Classroom sure helps minimize what I take home to correct. All I need is a device with Internet to correct my students’ assignments.

8:30am-9:20am  
**Session: 13**  
**Dakota G**  
Grade Level: 6-12  
Math

**Presenter:** Curt Olson & Martha Gregg  
Augustana University  
colson@augie.edu

**Rational Tangles**  
Using only two moves (rotate and twist) with two ropes and four teachers, we will create a tangle (knot). (The ropes are tangled, not the teachers.) Next we "untangle" the ropes by using only those two moves. We will then explore the mathematics of the tangle and untangle.

**Business Meetings** are this afternoon starting at 4:30  
Science in Dakota G  
Math in Dakota C  
All members are welcome and are encouraged to attend.

**Friday 8:30am**

8:30am-9:20am  
**Session: 14**  
**Dakota H**  
Grade Level: 9-12  
Science

**Presenter:** Georgina Cavin & Bobbie Talcott  
Southeast Technical Institute  
Georgina.Cavin@southeasttech.edu  
www.southeasttech.edu

**Soft Skills Acquired in Education**  
This presentation will identify and define the most desired soft skills that employers are looking for in their employees. After a discussion of the desired soft skills, examples will be discussed of how soft skills can be incorporated into lesson plans so students can perfect them in the classroom. Your students can be recognized as top performers on the job, when instructors incorporate employment soft skills within their lesson plans.

8:30am-9:20am  
**Session: 15**  
**Symposium**  
Grade Level: K-5  
Math

**Presenter:** Kathleen Cotter Lawler  
Right Start Math  
Maren@rightstartmath.com

**Taking the Fear Out of Fractions**  
Do you get groans in math class when the word 'fraction' is brought up? Well, there is a better and less painful way of teaching fractions! Fractions are, dare I say, fun when they are taught in the right way. What's the right way to teach them? Come and find the beauty and simplicity of fractions.

Stop in Salon II  
and see what is there.
**Featured Speaker**

Bill Badders  
NSTA Past President  
baddersb@roadrunner.com

**Linking Science and Literacy for Improved Student Outcomes**

Come explore strategies for linking science and literacy that support students’ abilities to read, write, and discuss in the context of science and inquiry-based learning using fiction and nonfiction texts. Hands-on examples of how science supports literacy and literacy supports science will be used.

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**Presenter:** Lynne Jones  
Washington Pavilion of Arts and Science  
ljones@washingtonpavilion.org  
www.washingtonpavilion.org

**Teaching STEAM Through Design Challenge Events**

Design Challenge is an annual program at the Washington Pavilion that aims to motivate and inspire innovation in students through a hands-on, STEAM based challenge. Come see examples of past challenges, hear about Design Challenge 2017 and how your students can be involved.

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**Presenter:** Heather Bleecker  
University of South Dakota  
Heather.Bleecker@coyotes.usd.edu

**Creating a Common Core Classroom**

Teacher practiced strategies will be shared for creating a Common Core Classroom in which teachers support and foster their students' individual growth in meeting the Standards for Mathematical Practice. Strategies provided include performance based lessons, standards based assessments, student and teacher interactions, and integrating technology for teaching and learning.
Saturday 9:30am - 11:20am (2hr) Session: 22
Saturday Dakota D
Grade Level: 9-12
Science
Presenter: Sam Shaw
SD DOE
Sam.Shaw@state.sd.us

Formative Assessment in Science
South Dakota is working with 13 other states on using formative assessment as a lever to advance equity and coherence in science education systems. Come learn about the co-design work and formative assessment tools!
Friday 9:30am
9:30am-11:20am (2hr) Session: 24
Friday Dakota F
Grade Level: 9-12 Math
Presenter: Mark Kreie & Jarrod Huntimer
Brookings High School
Mark.Kreie@k12.sd.us
http://markkreie.blogspot.com/

Desmos Activities & Activity Builder
Come and see why Desmos is a must-have for all 6-12 math teachers. Participants will be actively engaged in exploring Desmos Activities and the Activity Builder features. Please bring a laptop or iPad.

9:30am-10:20am Session: 25
Repeats as Session 109
Friday Dakota G
Grade Level: K-12 Math/Science
Presenter:
Sharon Vestal, Matt Miller & Dan Van Peursem
Sharon.Vestal@sdstate.edu

Meet the Future Teachers
Prospective science and math teachers from all South Dakota institutions are invited to engage with practicing science and math teachers attending the conference. The goal is to provide support and encouragement for future teachers by having experienced teachers share advice, success stories, and useful strategies.

9:30am-10:20am Session: 26
Friday Dakota H
Grade Level: 6-8 Math
Presenter: Crystal McMachen
Rapid City Area Schools
Crystal.McMachen@k12.sd.us

The Power of Partner Quizzes
Come find out how a simple thing as giving a quiz can get your students talking and engaging in mathematics. Learn tips for implementing partner quizzes to help ensure the success of the process. This session will focus on middle school mathematics, but can be applied to other subjects and grade levels as well.

Friday 9:30am
9:30am-10:20am Session: 27
Friday Symposium
Grade Level: K-5 Math
Presenter: Kathleen Cotter Lawler
Right Start Math
maren@rightstartmath.com

Math is More Than Just Numbers
Poetry is beautiful because it has rhyme, reason, and pattern. Poetry paints a picture. It is so much more than letters, just as math is so much more than numbers. Math becomes poetry when it’s explored and understood. Do you see the patterns in math? Does math paint a picture? If you said no to these questions, you need to come and discover the beauty of math.
Friday 10:30am

10:30am-11:20am  Session: 28  
Friday  
Dakota A  
Grade Level: K-5  
Science  

Presenter: Marie Steckelberg  
Steckelberg Consulting, LLC  
marie@steckelbergconsulting.com  
www.SteckelbergConsulting.com  

**Engineering is Elementary**  
Ready for an engineering design challenge using simple materials? This is your opportunity to be an engineer and relate your problem-solving strategies to the engineering design process. Experience how engineering projects integrate other disciplines. Engaging students in hands-on, real world engineering experiences can enliven math and science and other content areas.

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Friday 10:30am

10:30am-11:20am  Session: 29  
Friday  
Dakota B  
Grade Level: 9-12  
Math  

Presenter: Dr. Margaret Adams  
Northern State University  
Margaret.Adams@northern.edu  

**Unique Perceptions of Limits in Calculus**  
Unique perceptions of limits in calculus provide rationale for modifying teaching methodologies and improving learning outcomes in the high school or post-secondary mathematics classroom. Original research is presented along with an “Anticipation Guide for Limits” – a pretest/posttest to be implemented during the session as a collaborative group activity.

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Friday 10:30am

10:30am-11:20am  Session: 30  
Friday  
Dakota C  
Grade Level: 6-8  
Science  

Presenter: Julie Olson  
Mitchell Senior High  
Julie.Olson@k12.sd.us  

**Onion Root Mitosis**  
Learn how to really engage students in the preparation of, staining, and observation of onion root tips as well as take the process further to study substances that affect cell proliferation.

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Friday 10:30am

10:30am-11:20am  Session: 31  
Friday  
Dakota G  
Grade Level: 6-8  
Science  

Presenter: Cassie Soeffing & Liz Burck  
IGES/NASA  
cassie_soeffing@strategies.org  

**NASA Earth Science: Real-World Connections to Visualizations, Data and Tools**  
Join us as we share how NASA Earth system science resources can be used to support educators and students’ as they prepare for investigations and research projects. NASA develops new ways to observe and study Earth’s interconnected natural systems with long-term data records. Bring a laptop/tablet as we explore tools and resources in support of NGSS Earth’s system, weather and climate, and engineering design.

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Have you seen the pictures & read the descriptions on the SD-AAPT Photo Contest? Cast your vote by throwing in a penny or two for your favs.
Friday  
10:30am

10:30am-11:20am  
Session: 32  
Dakota H  
Grade Level: 6-8  
Math

Presenter:  Sharon Rendon & Julie Jackson  
CPM Educational Program  
sharonrendon@cpm.org  
www.cpm.org

Making Middle School Math Come Alive with Games and Activities
Participants will be actively engaged in working through games and activities around Middle School math topics. Integer Tiles and Games will be used to introduce and practice integer operations. We will work on order of operations not using PEMDAS. Participants will also do some activities around graphing and tables. They will also do a Scavenger Hunt to look at justifying their answers to mathematical situations.

Friday  
Noon

Noon-1:30pm  
Session: 33  
Prairie A, B & C

LUNCH
Come for a meal, awards, recognitions, and raffle with swag from our vendors and other amazing organizations!

www.sdsta.org  
www.sdctm.org

Friday  
1:30pm

1:30pm-2:20pm  
Session: 34  
Prairie A  
Grade Level: 9-12  
Science

Featured Speaker  
Brenda Walsh  
NSTA District IX Director  
Eden Prairie High School  
bwalsh@edenpr.org

STEM Starting On Day One
Use STEM activities to start your year with your new students and continue using the STEM process throughout the year.

1:30pm-2:20pm  
Session: 35  
Prairie B  
Grade Level: 9-12  
Math

Featured Speaker  
Eli Luberoff  
Desmos  
eli@desmos.com  
https://www.desmos.com/

What is "Networked" Content and Why Should I Care?
If you printed out digital content, would it be any worse? How about if you disconnected the internet? Dan Meyer says that he applies these two tests to any digital content. In this presentation, we'll explore the meaning and importance of each of those tests. We'll then work through a few examples of networked content. (Grades 6-12)
**Weekly Time Block: Week of December 6, 2021**

**Friday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Grade Level</th>
<th>Presenter/Location</th>
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</thead>
<tbody>
<tr>
<td>1:30pm-2:20pm</td>
<td>Session 36</td>
<td>Fast Facts and Fractions</td>
<td>6-8</td>
<td>Brad Fulton</td>
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<td>Featured Speaker</td>
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<td>Mistletoe STEM</td>
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<td>Brad Fulton</td>
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<td>1:30pm-3:20pm (2hr)</td>
<td>Deeper Learning in Three Dimensions: An Underground Journey</td>
<td>K-5</td>
<td>Kari Webb</td>
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<td></td>
<td>presenter: Black Hills State University/</td>
<td></td>
<td>Sanford Underground Research Facility</td>
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<td><a href="mailto:Kari.Webb@bhsu.edu">Kari.Webb@bhsu.edu</a></td>
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<td><a href="http://www.sanfordlab.org">www.sanfordlab.org</a></td>
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<td>1:30pm-2:20pm</td>
<td>South Dakota Envirothon</td>
<td>9-12</td>
<td>Kim Smeenk</td>
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<td>presenter: South Dakota Envirothon</td>
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<td>1:30pm-2:20pm</td>
<td>Science Inspiring Art – Art Empowering</td>
<td>6-8</td>
<td>Marie Steckelberg, EdD</td>
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<td>Science!</td>
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<td>&amp; DeVee Dietz</td>
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<td>presenter: Steckelberg Consulting, LLC</td>
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<td>Sturgis Williams Middle School</td>
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<td><a href="mailto:marie@steckelbergconsulting.com">marie@steckelbergconsulting.com</a></td>
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<td><a href="http://www.SteckelbergConsulting.com">www.SteckelbergConsulting.com</a></td>
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</table>

**Fast Facts and Fractions**

Four out of three students struggle with fractions, and the other 50% struggle with their times tables! Overcoming these hurdles is essential to success in mathematics. See how I helped my intervention students master all fraction operations and learn their multiplication facts in just 5 minutes a day. Complete handout.

**South Dakota Envirothon**

SD Envirothon builds natural resources literacy through a hands-on, environmental education program and team competition for high-school aged students. Winning state team will advance to the NCF Envirothon in Maryland in July! Find out how you can get a team involved!

**Science Inspiring Art – Art Empowering Science!**

Rocket through the solar system through the lens of an artist! Fuse science, technology and art to understand the story of our celestial neighbors. Learn how to engage students in space science by becoming artist explorers and deepen understanding of celestial objects when observing them through an artist’s lens.
Friday 1:30pm

1:30pm-2:20pm  Session: 40  
Friday Dakota D  
Grade Level: 9-12  Math  

Presenter: Naomi Fossen, SDDOT Engineer &  
Kelly Brandt, Physics Teacher  
South Dakota Department of Transportation & Pierre Riggs HS  
trac.sddot.com and sddot.com  

The TRAC Program- Promoting Careers in the Transportation Industry  
The Department of Transportation has recently created South Dakota TRAC (Transportation and Civil Engineering), an educational outreach program through the American Association of State Highway and Transportation Officials designed for use in STEM classes. Hands-on activities introduce students to the work world of transportation and civil engineering while inspiring them to consider careers in those fields. The program is designed to align with national standards. SD DOT works with schools to provide curricula and resources for teachers and engineers to visit classrooms.

Friday 1:30pm

1:30pm-2:20pm  Session: 41  
Friday Dakota E  
Grade Level: 6-8  Science  

Presenter: Dr. Janet Briggs  
Black Hills State University  
Janet.Briggs@bhsu.edu  

Analyzing and Interpreting Climate Change Data  
This session will provide numerous resources that address climate change. Interactive tools, simulations, and data from various Internet resources will provide statistical information for your students to gather, analyze and interpret. Techniques for using the information in argumentation will be shared as well.

Friday 1:30pm

1:30pm-2:20pm  Session: 42  
Friday Dakota F  
Grade Level: K-5  Math  

Presenter: Crystall Becker  
Canistota School District  
Crystall.Becker@k12.sd.us  

PBL in the Math Classroom  
Project Based Learning is an integral part in today’s education to increase student success in society. PBL focuses on complex questions to enhance critical thinking, problem solving, and collaboration by investigating a problem or challenge for a real-world scenario. In this session, grades 4-8 will be the primary focus.

Friday 1:30pm

1:30pm-2:20pm  Session: 43  
Friday Dakota G  
Grade Level: 9-12  Science  

Presenter: Larry Browning & Matt Miller  
South Dakota State University  
Larry.Browning@sdsstate.edu  

APPS Course Information and Registration  
Participants in the Advanced Principles in Physical Science (APPS) professional development opportunities and teachers interested in it are encouraged to attend to learn, share, and do some required paperwork.

Did you lose your handouts & still interested in having a copy?  
Check out the Wiki page: http://2017-sdctm-sdsta-pdc.wikispaces.com/
Friday 1:30pm

1:30pm-2:20pm  
Friday  
Grade Level: 9-12  

Session: 44  
Dakota H  
Math  

Presenter:  Ruth Conway  
Rapid City Area Schools  
Ruth.Conway@k12.sd.us  

Make It Look Easy! Classroom Routines Save Sanity  
"When I come into your room, I feel calm."  
Classroom management begins with the routines we establish and the chaos we prevent. This session will help you think more about what parts of your classroom environment can be simplified and streamlined so everyone has more time to do the REAL work of learning.

Friday 2:30pm

2:30pm-3:20pm  
Friday  
Grade Level: 9-12  

Session: 46  
Prairie B  
Science  

Presenter:  Sam Glantzow  
Selby Area High School  
Sam.Glantzow@k12.sd.us  

The Dragon Eats In Our Backyard!  
On August 21 a solar eclipse will be visible in all of North America, with South Dakota seeing at least 87% totality! This workshop will tell how to explain to students what is happening and how to safely observe and photograph it.

Friday 2:30pm

2:30pm-3:20pm  
Friday  
Grade Level: K-5  

Session: 45  
Prairie A  
Math  

Featured Speaker  
Mariann Dolnick  
marianndolnick@gmail.com  

Card Games for Reluctant Learners  
Have you ever been asked, “How can I help my child with math at home?” These card games are designed to help students practice and master a variety of math skills. The games can be played at school, but are also a great way for parents to review and reinforce math skills with their children in a relaxed, fun way.

Friday 2:30pm

2:30pm-3:20pm  
Friday  
Grade Level: 6-8  

Session: 47  
Prairie C  
Math  

Featured Speaker  
Brad Fulton  
Mistletoe STEM Institute  
brad@tttpress.com  
www.ttplpress.com  

The 100’s Chart: Building Algebra on the Arithmetic  
Students encounter the 100’s chart in the primary grades. Learn how to build upon their understanding of simple arithmetic to foster a deep understanding of algebraic skills. A seamless transition from arithmetic to algebra will have all students engaged in learning. A classroom-ready handout is available.
### Friday 2:30pm

| 2:30pm-3:20pm | Session: 48  
Friday  
Grade Level: 9-12  
Math  
**Presenter:** Lindsey Brewer, Lori Keleher, Brandi Fitzgerald, Megan Wilson & Michelle Moeding  
Huron High School  
Lindsey.Brewer@k12.sd.us  

**Tech Jam**  
The Huron High School Mathematics Department will jam 10 tech websites/apps into this fast paced session. Each of the 5 mathematics teachers will share 2 websites/apps that they utilize in their classroom. Please bring with you a computer and/or iPad. |

| 2:30pm-3:20pm | Session: 49  
Repeats as Session 98  
Friday  
Grade Level: K-5  
Science  
**Presenter:** Steven Rokusek  
South Dakota Public Broadcasting  
Steven.Rokusek@state.sd.us  
http://www.sdpb.org/learn/  

**Science... Intimidating... Boring... Difficult... or FUN! (It’s up to YOU...)**  
The participants will learn about new science activities and multimedia resources available at SDPB. Teachers of elementary - high school aged students will leave this session with activities to help keep their students engaged. The resources covered in the session are designed to engage students who may find science concepts challenging to understand. |

| 2:30pm-3:20pm | Session: 50  
Friday  
Grade Level: 6-8  
Science  
**Presenter:** Joy Berg & Jessica Carr  
Bridgewater-Emery & Georgia-Morse Middle Schools  
Joy.Berg@k12.sd.us  

**NASA’s Educator Professional Development Institute (EPDI) Informational Session**  
Struggling to find NGSS-aligned activities? Let NASA help! Attendees will be participating in a middle school science activity designed by NASA. We will be honored to have Brandon Hargis, Education Specialist from Johnson Space Center, summarizing NASA’s resources via Skype! |

| 2:30pm-3:20pm | Session: 51  
Friday  
Grade Level: 9-12  
Science  
**Presenter:** Rick Henningfeld  
SD Soybean Research & Promotion Council  
rhenningfeld@vivayic.com  
www.sdsoybeanscience.org  

**Soybean Science - Genetics & Biotechnology**  
Experience five lesson plans that dive into the science of one of the largest commodities in South Dakota, soybeans. We will explore activities to help students understand how altering the genotype of a soybean can result in desired phenotypes, the technology to make these changes possible and the trade-offs of these biotechnologies. |
Friday 2:30pm

2:30pm‐3:20pm  Session: 52  
Friday  
Grade Level: 6-8  
Science

Presenter:  Liz McMillan & Friends  
Sanford Research‐The Sanford PROMISE  
SanfordOutreach@sanfordhealth.org  
www.sanfordresearch.org/education

Community Problem Solving with eCYBERMISSION  
Army Education Outreach Programs has a great opportunity for 6-9th grade students to compete in an all-online problem solving competition. Teams of 3-4 students compete, earn scholarships, and even a trip to DC. Come see how easy it is to become a Team Advisor and how this program can be integrated in your 6-9th grade classroom (math, science, or otherwise!)

2:30pm‐3:20pm  Session: 53  
Repeats as Session 87  
Friday  
Grade Level: 6-8  
Math

Presenter:  Joshua Schmidt  
McCook Central School District  
Joshua.Schmidt@k12.sd.us  
joshuaschmidt.wikispaces.com

Customizing Middle School Math with Independent Pacing, Appropriate Leveling, and Authentic Student Choice.  
Joshua Schmidt has been working to customize his middle school Math classroom for the last seven years. Using a variety of strategies, including Menus and Choice Boards, he’s tried to create the ideal learning environment for every student every day. He’s excited to share his success and his failures to help other teachers try to customize their own classrooms.

Friday 2:30pm

2:30pm‐3:20pm  Session: 54  
Friday  
Grade Level: K-5  
Math

Presenter:  Kathleen Cotter Lawler  
Activities for Learning, Inc.  
Kathleen@RightStartMath.com  
www.RightStartMath.com

Place Value: The Foundation of Number Sense  
Place value is the most important concept in arithmetic. Place value has a static component, indicating how numbers are recorded, and a dynamic component involving trading between denominations. We need to teach this right from the start. Come and learn the best way to teach this critical concept in math.

2:30pm‐3:20pm  Session: 55  
Friday  
Grade Level: 9-12  
Math

Presenter:  Sheila McQuade  
O’Gorman High School  
smcquade2@sfcss.org

Using the Flipped Classroom Model in a Geometry Classroom  
Flipping a high school class is as challenging as one would think, but it is well worth all of the extra work. In this session I will share my success, and my struggles, in flipping my Geometry classes.

Math & Science Business Meetings @ 4:30  
All members are welcome and are encouraged to attend.  
SD EPSCOR & Fisher Science Education Sponsored Social Mixer begins after the Business Meetings are over.
Friday 3:30pm

3:30pm-4:20pm Session: 56
Friday Prairie A
Grade Level: K-5 Math

Featured Speaker
Mariann Dolnick
marianndolnick@gmail.com

Word Problems Made Easy with the P.O.D.
Do your students dread word problems? Learn how to incorporate a “Problem Of the Day” (P.O.D.) into your daily math instruction and watch your students conquer their fear of word problems.

Friday 3:30pm

3:30pm-4:20pm Session: 57
Friday Prairie B
Grade Level: 6-12 Math

Featured Speaker
Eli Luberoff
Desmos
eli@desmos.com
https://www.desmos.com/

Math for Every Student W/Technology
One-to-one. Accessibility. Personalization. Internationalization. Low floor. High ceiling. What do these all have in common? Each is intended to make mathematics work for every student. Not just the confident students, not just the struggling students, every student. We’ll explore the technology and techniques that can open doors, challenge the bored, empower the disempowered, enable the disabled, and turn every student into a mathematics student.

Friday 3:30pm

3:30pm-4:20pm Session: 58
Friday Prairie C
Grade Level: 9-12 Science

Featured Speaker
Katie Grausam
Sanford Research/USD
SanfordOutreach@sanfordhealth.org
www.sanfordresearch.org

Science in Action
As science education transitions to teaching students the way scientists work, join this session to learn about the way a scientist trains as they earn a PhD and the process by which they develop and attack questions related to research.

Friday 3:30pm

3:30pm-4:20pm Session: 59
Friday Dakota A
Grade Level: K-5 Math

Presenter: Kevin Smith
Dakota State University
Kevin.Smith@dsu.edu
www.kevindsmith.org/seesaw.html

Using Seesaw in the Math Classroom
Seesaw is a tool that allows you to capture digital artifacts of student work. In this session, I'll show you how you can use it to communicate with parents, allow students to explain and justify their thinking, and have students reflect on their learning.

Next year’s Conference is
February 8, 9, and 10, 2018
Have you thought about presenting?
Friday  
3:30pm  

3:30pm-4:20pm  
Session: 60  
Dakota B  
Grade Level: 9-12  
Math  

Presenter:  Lindsey Brewer, NBCT  
& Lori Keleher, NBCT  
Huron High School  
Lindsey.Brewer@k12.sd.us;  
Lori.Keleher@k12.sd.us  

Transform your Classroom Routine!  
Are you tired of the same old activities? Join us to learn 3 ways to transform ordinary assignments into engaging activities. Receive examples, instructions, and templates to create your own versions of Lucky Buckets, Find Someone Who and Punch Out. Get your students moving both physically and mathematically!!!

3:30pm-4:20pm  
Session: 61  
Repeats as Session 108  
Dakota C  
Grade Level: 6-8  
Math  

Presenter:  Samra Trask  
Wall School District  
Samra.Trask@k12.sd.us  

Putting the ’Flash’ back into Flashcards  
Higher Order Thinking Skills combined with math practice? Is it even possible? Interactive technology almost too fun for the classroom.

Friday  
3:30pm  

3:30pm-4:20pm  
Session: 62  
Dakota D  
Grade Level: 6-8  
Math  

Presenter:  Crystal McMachen & Kari Abelseth  
Rapid City Area Schools  
Crystal.McMachen@k12.sd.us  

Power of Points  
Come and learn about an easy to implement strategy to get more student engagement. Points are a way of encouraging and rewarding student attention, math talk, and classroom participation. Receive tips and strategies for implementing a points system into your daily routine.

3:30pm-4:20pm  
Session: 63  
Repeats as Session 40  
Dakota E  
Grade Level: 9-13  
Math  

Presenter:  Naomi Fossen, SDDOT Engineer &  
Kelly Brandt, Physics Teacher  
South Dakota Department of Transportation & Pierre Riggs HS  
trac.sddot.com and sddot.com  

The TRAC Program- Promoting Careers in the Transportation Industry  
The Department of Transportation has recently created South Dakota TRAC (Transportation and Civil Engineering), an educational outreach program through the American Association of State Highway and Transportation Officials designed for use in STEM classes. Hands-on activities introduce students to the work world of transportation and civil engineering while inspiring them to consider careers in those fields. The program is designed to align with national standards. SD DOT works with schools to provide curricula and resources for teachers and engineers to visit classrooms.

Share the Classroom Treasures
Stop in Salon II and see what’s there. Take what you can use!
After Saturday afternoon, Treasures become Trash.
Friday 3:30pm

3:30pm-4:20pm  Session: 64
Friday
Grade Level: 6-8
Science

Presenter:  Michelle Bartels
Hamlin Middle School
Michelle.Bartels@k12.sd.us
https://sites.google.com/site/bartelsscience/

Down to Earth in the Classroom
Be engaged while exploring ready-to-use earth science lessons from the American Geosciences Institute. Hear about the week-long academies held in the summer months in Houston annually. Two academies, one each for K-5 and middle school, provide teachers with inquiry activities, instructional resources, access to research facilities, and leadership development activities.

Friday 4:30pm

4:30pm-5:30pm  Session: 67
Friday
SDCTM Meeting
www.sdctm.org

Friday 3:30pm

3:30pm-4:20pm  Session: 65
Friday
Grade Level: 9-12
Science

 Presenter:  James Stearns & Larry Browning
SD - AAPT
James@SDSTA.org
http://sdaapt.sdsta.org/

Fractions: The Whole Story
Explore the simplicity and beauty of fractions by approaching them with a linear model, rather than pie slices. Learn how to ask the right questions to guide your students to a solid understanding. We'll demonstrate activities and games to learn fractions and build confidence.

4:30pm-5:30pm  Session: 68
Friday
SDSTA Meeting
officers@sdsta.org
www.sdsta.org
Friday 5:00pm
5:00pm-6:30pm
Friday
Grade Level: All
Session: 69
Reception Area
SD EPSCOR & Fisher Science Education Sponsored
Social Mixer

Friday 6:30pm
6:30pm-9:00pm
Friday
Grade Level: All
Session: 69
Prairie A, B & C
Ticket Required
Banquet
Brad Fulton
Teach With All Your Heart!

SDSTa/SDCTM SOCIAL MIXER EVENT
FRIDAY, February 3rd 2017
Huron Events Center
5:00 PM TO 6:30 PM
Prefunction Area

2017 SD Math/Science Conference
Banquet
SDCTM and SDSTA Awards
SD Presidential Awards
Keynote: Brad Fulton
- 2005 CA Educator of the Year
- Author & Motivational speaker
- NCTM national featured presenter
Saturday  7:00am

7:00am-8:20am  Session: 70
Saturday
Grade Level: 9-12  Math

Presenter: Allen Hogie & Ramona Lundberg
South Dakota PAEMST Coordinators
Allen.Hogie@k12.sd.us
www.paemst.org

Breakfast for SD PAEMST Awardees (past and present) and State Level Finalists
Free Breakfast and Great Conversation!

Saturday  8:30am

8:30am-9:20am  Session: 72
Repeat of Session 16
Saturday
Prairie A
Grade Level: K-5  Science

Featured Speaker
Bill Badders
NSTA Past President
baddersb@roadrunner.com

Linking Science and Literacy for Improved Student Outcomes
Come explore strategies for linking science and literacy that support students' abilities to read, write, and discuss in the context of science and inquiry-based learning using fiction and nonfiction texts. Hands-on examples of how science supports literacy and literacy supports science will be used.

Saturday  8:30am

8:30am-9:20am  Session: 73
Saturday
Prairie B
Grade Level: 9-12  Math

Presenter: Sandy Cahoy & Kristi Gruber
Presentation College
Sandra.Cahoy@presentation.edu

M^3 - Making Math Motivating
Wouldn't you love it if your students found meaning in their math, were motivated to complete their work, and saw a purpose to their progression? If you answered yes to any or all of these questions, come check out our session on customizing math using WebAssign in all types of classes: face-to-face, online, and video conferencing.
Saturday  8:30am

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<td>74</td>
<td>Prairie C</td>
<td>6-8</td>
<td>Math</td>
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<tr>
<td>Saturday</td>
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**Featured Speaker**
Brad Fulton  
Mistletoe STEM Institute
brad@tttpress.com  
www.tttpress.com

**Building Number Sense Through Engaging Activities**
The development of number sense is crucial to success in upper mathematics. This presentation will show teachers how they can foster rich number sense using simple and powerful strategies. A ready-for-Monday handout is available.

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Saturday  8:30am

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<td>9-12</td>
<td>Math</td>
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<tr>
<td>Saturday</td>
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**Presenter:** Becky Walker  
CESA 7 in Green Bay, Wisconsin  
bwalker@cesa7.org

**How Can I Make Struggle Be Productive?**
"Struggle" can be productive and motivating, stimulate problem solving creativity, deepen understanding, and help in confronting rigorous challenges. Learn to change student behaviors to embrace and understand benefits of productive struggle, and analyze teacher behaviors and adjust to help make struggle productive and motivating rather than frustrating for your students.

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Saturday  8:30am

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<td>Math</td>
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<td>Saturday</td>
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**Presenter:** Sarah Gross, Rebecca Kline, and Brittany Hausmann  
Rapid City Area Schools  
Sarah.Gross@rcas.org

**Grade What Matters!**
What do grades really mean? This session will allow participants to discuss what makes grades meaningful, consistent, accurate and most important, motivating. This interactive session will help you think deeply about how your classroom grades can more than a report, but a tool for student growth.
**Saturday**  
**8:30am**

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<td>77</td>
<td>9-12</td>
<td>Science</td>
</tr>
<tr>
<td><strong>Saturday</strong></td>
<td><strong>Dakota C</strong></td>
<td><strong>Jeff Peterson &amp; Drue Watson</strong></td>
<td>West Central School District</td>
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**Presenter:**  
Jeff Peterson & Drue Watson  
West Central School District  
Jeff.Peterson@k12.sd.us  
www.explorelearning.com

**Using Online Simulations to Enhance Math and Science Instruction**  
When students use online simulations to explore topics in math and science, conceptual understanding soars and the subjects come to life. In this session, attendees will participate in an interactive lab that matches their content area, and learn how they can incorporate these simulations into their classrooms.

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**Saturday**  
**8:30am**

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<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am-9:20am</td>
<td>78</td>
<td>K-5</td>
<td>Math</td>
</tr>
<tr>
<td><strong>Saturday</strong></td>
<td><strong>Dakota D</strong></td>
<td><strong>Regan Holleman</strong></td>
<td>Platte-Geddes School District</td>
</tr>
</tbody>
</table>

**Presenter:**  
Regan Holleman  
Platte-Geddes School District  
Regan.Holleman@k12.sd.us

**Meeting the Math Needs of All Students - Implementing Guided Math**  
During this session I would like to discuss how to set up and implement guided math groups in the classroom. The session will include ideas on how to manage math time so every student is working on "just right" math, group kids according to their needs, organization and implement of stations and station ideas.

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**Saturday**  
**8:30am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Grade Level</th>
<th>Subject</th>
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</thead>
<tbody>
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<td>8:30am-9:20am</td>
<td>80</td>
<td>6-8</td>
<td>Science</td>
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<tr>
<td><strong>Saturday</strong></td>
<td><strong>Dakota F</strong></td>
<td><strong>Angie Plaine, Mona Tschudy, and Tonya Miller</strong></td>
<td>Harrisburg South Middle School</td>
</tr>
</tbody>
</table>

**Presenter:**  
Angie Plaine, Mona Tschudy, and Tonya Miller  
Harrisburg South Middle School  
Angie.Plaine@k12.sd.us  
http://plaineolescience.weebly.com/

**Personalized Learning in the Science Classroom**  
This year our school embarked on integrating Personalized Learning into our middle school classrooms. This session will focus on sharing ideas for customizing the learning environment in your science classroom.

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<thead>
<tr>
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<td><strong>Saturday</strong></td>
<td><strong>Dakota G</strong></td>
<td><strong>Judy Vondruska and Suzette Burckhard</strong></td>
<td>South Dakota State University</td>
</tr>
</tbody>
</table>

**Presenter:**  
Judy Vondruska and Suzette Burckhard  
South Dakota State University  
Judy.Vondruska@sdsate.edu  
http://edps.wikispaces.com/

**How Sticky Is It?**  
Participants will use the concepts of potential and kinetic energy to design a system to test and compare the stickiness of various types of tape. This session will address SD science standards related to energy, forces and engineering design principles.

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Check out the Wiki page:  
http://2017-sdctm-sdsta-pdc.wikispaces.com/  
Many of the Presenters have placed their handouts on this site.
**Saturday 8:30am**

8:30am-9:20am Session: 82
Saturday Dakota H
Grade Level: 6-8 Math

**Presenter:** Gary Hatfield & Christine Larson & Sharon Vestal
South Dakota State University
Gary.Hatfield@sdstate.edu

**UMP: What are the chances?**
This session is part of the Using Mathematical Practices follow-up workshop funded by a SD Board of Regents Title II grant. Come join us as we look at probability and probability activities for middle school students.

---

9:30am-10:20am Session: 83
Saturday Salon
Grade Level: 9-12 Math

**Presenter:** Allen Hogie & Ramona Lundberg
South Dakota PAEMST Coordinators
allen.hogie@k12.sd.us; Ramona.Lundberg@k12.sd.us
www.paemst.org

**Showcase Your Teaching Practice and Win Money**
How would you like to receive $10,000 for showcasing your teaching practice? The Presidential Award is sponsored by the White House and the National Science Foundation. South Dakota is able to give two awards, one in mathematics and one in science. The 2017 cycle recognizes teachers who teach in grades 7-12.

---

**Saturday 9:30am**

9:30am-10:20am Session: 84
Saturday Prairie A
Grade Level: 9-12 Science

**Presenter:** Lisa Cardillo & Colby Peterson
Harrisburg High School
Lisa.Cardillo@k12.sd.us; Colby.Peterson@k12.sd.us
www.PgED.org

**Genetics Gets Personal (Ethical, Legal, and Social Issues)**
Interested in learning more about Personal Genetics? Come hear what Harrisburg High school Social Science and Science teachers learned during their professional development conference at Harvard, how it is impacting their classrooms, and future plans for PgED in South Dakota.

---

9:30am-10:20am Session: 85
Repeat of Session 56
Saturday Prairie B
Grade Level: K-6 Math

**Featured Speaker**
Mariann Dolnick
mariannndolnick@gmail.com

**Word Problems Made Easy with the P.O.D.**
Do your students dread word problems? Learn how to incorporate a “Problem Of the Day” (P.O.D.) into your daily math instruction and watch your students conquer their fear of word problems.
Saturday 9:30am

9:30am-10:20am
Session: 86
Saturday Prairie C
Grade Level: 9-12
Math

Featured Speaker
Brad Fulton
Mistletoe STEM Institute
brad@tttpress.com
www.tttpress.com

Graphic Organizers for Teaching Algebra
Many students don’t know where to begin when tackling tough algebra problems. These graphic organizers helped my students make significant gains on test scores and alleviated much of the, “I don’t get it.” Learn how to help students with binomial multiplication and factoring, combined work problems, and percent mixture problems.

Saturday 9:30am
9:30am-10:20am
Repeat of Session 53
Saturday Dakota A
Grade Level: 6-9
Math

Presenter: Joshua Schmidt
McCook Central School District
Joshua.Schmidt@k12.sd.us
joshuaschmidt.wikispaces.com

Customizing Middle School Math with Independent Pacing, Appropriate Leveling, and Authentic Student Choice.
Joshua Schmidt has been working to customize his middle school Math classroom for the last seven years. Using a variety of strategies, including Menus and Choice Boards, he’s tried to create the ideal learning environment for every student every day. He’s excited to share his success and his failures to help other teachers try to customize their own classrooms.

Saturday 9:30am
9:30am-10:20am
Session: 88
Saturday Dakota B
Grade Level: 6-8
Math

Presenter: Carla Diede
Harrisburg South Middle School
Carla.Diede@k12.sd.us

Pathways of Learning
Empower students to advocate for their own learning by giving them choice in how they learn and demonstrate mastery. Gain ideas on how to break the mold of all students doing the same thing at the same time. See examples of how to restructure your classroom and resources to provide for this flexibility.

Saturday 9:30am
9:30am-10:20am
Session: 89
Saturday Dakota C
Grade Level: 9-12
Science

Featured Speaker
Brenda Walsh
NSTA District IX
Eden Prairie High School
bwalsh@edenpr.org

Games for Chemistry Naming and Formula Writing
Practicing formula writing and naming is needed to help students become proficient at this much needed Chemistry skill. But not all students "enjoy" worksheets. Here are a few different activities to help them practice while playing.
Math Discourse: Beyond Show and Tell
When students are asked to talk in mathematics class, they often "show and tell" their procedures. Learn how to engage your students in productive discourse that brings them beyond "show and tell" to deep thinking, explaining, modeling, justifying, proving, analyzing, and creating.

Slope and Tangent: It's a Geometric Connection!
The tangent ratio will be developed using slope angles of lines, slope triangles, and similar triangles. These ideas will be connected to trig ratios beginning with the tangent ratio. The use of calculators to find the ratio and the slope angle become the tool for applications.

Bust it Out!: Animal Cell DNA Extraction
The Sanford PROMISE has opportunities for students and teachers to access the technology and expertise of biomedical scientists at Sanford Research. In this hands-on workshop you will extract DNA from canned Salmon and learn how Sanford PROMISE can connect with you and your class(es).

Sorting Trash
Participants will first explore the basics magnetic properties of different substances and then apply their knowledge to an engineering-focused activity in which participants design a means by which a recycler can separate aluminum and iron scrap metal. This session will address SD science standards related to magnetism, electromagnetism, and engineering design principles.
**Saturday 9:30am**

9:30am-10:20am Session: 94
Saturday
Grade Level: 9-12
Math

**Presenter:** Sharon Vestal, Christine Larson, and Gary Hatfield
South Dakota State University
Sharon.Vestal@sdstate.edu

**UMP: Let’s Count**
This session is part of the Using Mathematical Practices follow-up workshop funded by a SD Board of Regents Title II grant. Come join us as we learn fundamental counting principles, including the multiplication principle, permutations, and combinations.

**Saturday 10:30am**

10:30am-11:20am Session: 97
Repeat of Session 4
Saturday
Grade Level: K-6
Math

**Featured Speaker**
Mariann Dolnick
mariandolnick@gmail.com

**Challenging Students to Think Critically**
Mathematical Performance Tasks or Exemplars challenge students to apply their critical-thinking and problem-solving skills to complex problems. In this session, you will collaborate with others to think critically and solve various math problems. Take a step toward incorporating project based learning and differentiated problem-solving in your class.

---

**Saturday 9:30am**

9:30am-10:20am Session: 95
Saturday
Symposium
Grade Level: 9-12
Science

**Presenter:** Spencer Cody
Hoven School District
Spencer.Cody@k12.sd.us
http://teacheratsea.noaa.gov/#/2016/Spencer*Cody/blogs

**NOAA Teacher at Sea**
The mission of the National Oceanic and Atmospheric Administration’s (NOAA) Teacher at Sea Program is to provide K-16 teachers hands-on, real-world research experience working at sea, thereby giving them unique insight into oceanic and atmospheric research crucial to the nation.

**Saturday 10:30am**

10:30am-11:20am Session: 96
Saturday
Prairie A
Grade Level: 6-12
Math

**Featured Speaker**
Eli Luberoff
Desmos
eli@desmos.com
https://www.desmos.com/

**Ten Things You Didn’t Know You Could Do With A Graphing Calculator**
According to Moore’s Law, computers are 1,000 times as powerful as they were two decades ago. What does that mean for the types of exploration that’s possible on one of the many graphing calculator apps for computers and tablets? We’ll focus on the free Desmos app, as that’s the one that Eli knows best, though many of the activities apply to any new graphing app.
Science... Intimidating... Boring... Difficult... or FUN! (It’s up to YOU...)  
The participants will learn about new science activities and multimedia resources available at SDPB. Teachers of elementary - high school aged students will leave this session with activities to help keep their students engaged. The resources covered in the session are designed to engage students who may find science concepts challenging to understand.

Standards Review Process  
Your comments are wanted! Come hear about the Standards Review process. You will find out where to see the SUGGESTED changes for the K-12 CCSS-M. Presenter will share the process used and show you where you can go in and make comments about the changes.

Customizing a Science Classroom  
For four years Harrisburg High School has been working on customized learning for all students. Come to the session to learn about how to customize your science classroom. We will discuss mastery learning and how we manage the day to day and meeting all students needs while incorporating group activities that are so important for science learning.
Saturday  
10:30am-11:20am  
Session: 102  
Dakota D  
Grade Level: 6-8  
Science

**Presenter:** Marie Steckelberg, EdD, Rachel Hartmann, & Loreli Lawrence  
SD Discovery Center, Northern State University, Oglala Community College  
marie@steckelbergconsulting.com  
http://www.sd-discovery.org/

**The Solar Eclipse: Is it a Shadowy Experience?**  
The sky will darken across America on Aug. 21, 2017 in the most epic solar eclipse in 99 years. Explore lessons that look at the solar eclipse phenomena from cultural and scientific perspectives. Created by pre-service education students, this unit was a winner in the Pre-Service Educator Eclipse Competition project.

**10:30am-11:20am**  
Saturday  
Dakota E  
Grade Level: 9-12  
Science

**Presenter:** Larry Browning  
SDSU  
Larry.Browning@sdstate.edu

**Liquid Drop Microscope**  
Make and take a microscope to watch critters living in a drop of water.

**Saturday  
10:30am**  
Session: 104  
Dakota F  
Grade Level: K-5  
Math

**Presenter:** Constance Krueger & Dr. Erin Lehmann  
Dakota Writing Project, RCAS, & South Canyon Elementary  
kruegcon@gmail.com

"To Write a Thing is to Know that Thing": How Writing Changes the Scene  
Using reflection, self-assessment, and ideas from Dr. Lehmann's book, Teaching Mathematics Today, Connie and Erin will model ways to incorporate writing in math instruction. If you wish for sharper-focused formative assessment and deeper student learning, adding writing to your lessons is the way to go.

**Saturday  
10:30am-11:20am**  
Dakota G  
Grade Level: 6-8  
Science

**Presenter:** Suzette Burckhard & Judy Vondruska  
South Dakota State University  
Suzette.Burckhard@sdstate.edu  
http://edps.wikispaces.com/

**Balloon Rockets**  
Participants will construct "rockets" from balloons propelled along a guide string. Data will be collected to relate force, mass, and acceleration concepts underlying Newton's Laws of Motion (SD Science Standards). Participants will then experiment with their constructed balloon rocket to determine the amount of payload that can be delivered over a gap varying in height and elevation in order to design an optimal delivery system (SD Engineering Standards).
Saturday 10:30am

10:30am-11:20am Session: 106
Saturday Dakota H
Grade Level: 9-12 Math

Presenter: Christine Larson & Gary Hatfield & Sharon Vestal
South Dakota State University
Christine.Larson@sdstate.edu

UMP: Modeling Population Growth
This session is part of the Using Mathematical Practices follow-up workshop funded by a SD Board of Regents Title II grant. Come join us as we look at model skeeter populations based on simulations that use different growth characteristics.

Saturday 11:30am

11:30am-12:20pm Session: 108
Repeat of Session 61
Saturday Dakota A
Grade Level: 6-9 Math

Presenter: Samra Trask
Wall School District
Samra.Trask@k12.sd.us

Putting the 'Flash' back into Flashcards
Higher Order Thinking Skills combined with math practice? Is it even possible? Interactive technology almost too fun for the classroom.

10:30am-11:20am Session: 107
Saturday Symposium
Grade Level: 9-12 Science

Presenter: Marica Shannon
Mitchell High School, Mitchell School District
Marica.Shannon@k12.sd.us

ArtBots: Engineering and Visual Arts Integration
The arts are a great learning tool and can serve as an on-ramp to STEM for underrepresented students. Engaging students’ strengths using art activities increases motivation and the probability of STEM success. Learn how artbots integrate engineering and the visual arts.

11:30am-12:20pm Session: 109
Repeat of Session 25
Saturday Dakota B
Grade Level: K-13 Math/Science

Presenter: Sharon Vestal, Matt Miller & Dan Van Peursem
Sharon.Vestal@sdstate.edu

Meet the Future Teachers
Prospective science and math teachers from all South Dakota institutions are invited to engage with practicing science and math teachers attending the conference. The goal is to provide support and encouragement for future teachers by having experienced teachers share advice, success stories, and useful strategies.
Saturday 11:30am

11:30am-12:20pm  Session: 110
Saturday
Dakota C
Grade Level: 6-8
Science

Presenter: Anne Lewis
South Dakota Discovery Center
anellewis@sd-discovery.org
www.sd-discovery.org

Visualizing and Interpreting Earth System's Data
Visualizing and interpreting data is an important part of "doing" science. This Earth System's learning activity will connect data to earth systems interactions. Appropriate for 6-12.

11:30am-12:20pm  Session: 111
Saturday
Dakota D
Grade Level: 9-12
Science

Presenter: Benjamin Benson
Sanford Research: Sanford PROMISE
SanfordOutreach@sanfordhealth.org
www.sanfordresearch.org/education

Scientific and Engineering Practices Applied to Biomedical Research
The Sanford PROMISE helps classrooms connect with real world science in South Dakota. Get to know Benjamin Benson the new Research Education Specialist of the Sanford PROMISE lab as he describes his time as a research associate with Sanford Research through the lens of the 8 Scientific and Engineering Practices.

Saturday 11:30am

11:30am-12:20pm  Session: 112
Saturday
Dakota E
Grade Level: 6-8
Science

Presenter: Mark Iverson
Mark.A.Iverson@k12.sd.us

Iverson Science: The Student Experience
Come see what it’s like to be in Mr. Iverson’s science class! Stations will be set up around the room to give an immersive experience of the more popular labs. Lab procedures and examples of demos will be available for you to take back to class.

11:30am-12:20pm  Session: 113
Saturday
Dakota F
Grade Level: 6-8
Math

Presenter: Shana Ward
East Middle School/ Rapid City Area Schools
Shana.Ward@k12.sd.us

A Thief of Great Ideas
I am a thief of great ideas. I will share some of the best that you can implement in your classroom at little or no cost. I will share ideas on organization, innovation, classroom management, groupwork, vocabulary, use of technology, and student motivation.
Saturday 11:30am

11:30am-12:20pm  Session: 114
Saturday Dakota G
Grade Level: 6-8  Science

Presenter:  Suzette Burckhard & Judy Vondruska
South Dakota State University
suzette.burckhard@sdstate.edu
http://edps.wikispaces.com/

Beat the Sensor
Participants will explore materials properties as they relate to motion detection then use that knowledge to make design decisions about what types of motion detectors to use in specific applications, such as conserving energy in commercial buildings. This session will address SD science standards related to waves, absorption, reflection, transmittance and engineering design principles.

Saturday 12:30pm

12:30pm-1:30pm  Session: 116
Saturday Prairie A, B & C

LUNCH
Come for a meal, awards, recognitions, and raffle with swag from our vendors and other amazing organizations!

www.sdsta.org
www.sdctm.org

Saturday 1:30pm

1:30pm-2:20pm  Session: 117
Saturday Prairie A
Grade Level: 9-12  Math

Presenter:  Dr. Donald Teets & Dr. Donna Kliche
SD School of Mines and Technology
Donald.Teets@sdsmt.edu

Computational Astronomy for Teachers and Their Students
This presentation addresses the need to expand STEM education in South Dakota in the field of space science. The SDSMT is offering two-day workshops for K-12 Science and Math teachers as continuing education credits for certification renewal.
**Card Games for Reluctant Learners**
Have you ever been asked, “How can I help my child with math at home?” These card games are designed to help students practice and master a variety of math skills. The games can be played at school, but are also a great way for parents to review and reinforce math skills with their children in a relaxed, fun way.

**Getting more from your tablet.**
Explore ways to combine tablet technology and various programs such as Class Notebooks, Sway, Blackboard Learn, and Planbook. You may never go back to paper! (This session focuses on tablet use.)

**Strategies for Conversations with Intention**
Participants will be provided conversational strategies to enhance discussions in any classroom. Strategies will include: talk moves for teachers and students, discussion protocols all 21st Century Skills students can use when they leave the classroom.

**Share the Classroom Treasures**
Time is running out! In two hours, Treasures will become Trash!!!
Please feel free to take anything that you can use.

Thank You to those that brought items.
South Dakota Envirothon
SD Envirothon builds natural resources literacy through a hands-on, environmental education program and team competition for high-school aged students. Winning state team will advance to the NCF Envirothon in Maryland in July! Find out how you can get a team involved!

Power of Points
Come and learn about an easy to implement strategy to get more student engagement. Points are a way of encouraging and rewarding student attention, math talk, and classroom participation. Receive tips and strategies for implementing a points system into your daily routine.

Next year’s Conference is
February 8, 9, and 10, 2018
Have you thought about presenting?

Teaching STEAM Through Design Challenge Events
Design Challenge is an annual program at the Washington Pavilion that aims to motivate and inspire innovation in students through a hands-on, STEAM based challenge. Come see examples of past challenges, hear about Design Challenge 2017 and how your students can be involved.

Weather Ballooning: Take Your Teaching Out of This World
If you have ever wanted to start a weather balloon project with your class, this is the session for you. I am by no means an expert but will offer my experience, resources, fails and accomplishments and get you in contact with the experts that guided me.
Saturday 1:30pm

1:30pm-2:20pm  Session: 126
Saturday  Dakota H
Grade Level: 9-12  Science

Presenter:  Kevin McElhinney
Plankinton Schools
Kevin.McElhinney@k12.sd.us
https://plankintonscience.wordpress.com

BEST Robotics Competition
This session will talk about my experience in helping Plankinton’s science club compete in the BEST robotics competition put on by the Jackrabbits BEST hub at SDSU. I will discuss the competition and trying to help students use design thinking to meet competition requirements.

Saturday 2:30pm

2:30pm-3:20pm  Session: 129
Saturday  Prairie B
Facilitator: Cindy Kroon; www.sdctm.org

Math Wrap-Up
Math Round Table to share and discuss the conference. (cindy.kroon@k12.sd.us)

Saturday 3:30pm

3:30pm-5:30pm  Session: 131
SDSTA and SDCTM Leadership
Joint Board Meeting  Board Room
Representatives will be exhibiting on Friday from 8:00 AM until 5:00 PM (& Saturday morning). These include:

<table>
<thead>
<tr>
<th>Organization</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>ChemEd 2017</td>
<td>Matt Miller</td>
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<td>CPM Educational Program</td>
<td>Sharon Rendon</td>
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<td>Houghton Mifflin Harcourt</td>
<td>Matt Misialek</td>
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<td>Inspire Innovation Lab / Nerd Nook</td>
<td>Carrie Leopold</td>
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<td>Brenda Walsh</td>
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<td>Benjamin Losby</td>
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<td>Project Lead The Way</td>
<td>Sonya McNamara</td>
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<td>RightStart Mathematics by Activities for Learning, Inc.</td>
<td>Kathleen Cotter Lawler</td>
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<td>Sanford Research</td>
<td>Tamara Ledeboer</td>
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<td>Anne Lewis</td>
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<td>South Dakota Envirothon</td>
<td>Kim Smeenk</td>
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<td>South Dakota Public Broadcasting</td>
<td>Steven Rokusek</td>
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<tr>
<td>Technology and Innovation in Education</td>
<td>Marcia Torgrude, LuAnn Lindskov</td>
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</tbody>
</table>

*Name Tag Lanyards are compliments of Sanford PROMISE*

South Dakota Science Teachers Association Business Meeting
will be held in Dakota C
at 4:30 pm on Friday, February 3, 2017

SD Council of Teachers of Mathematics Business Meeting
will be held in Dakota G
at 4:30 pm on Friday, February 3, 2017

**Graduate Credit**

Conference credit will be offered through Dakota Wesleyan University. You may register for one hour of credit at the 499 or 599 level. Attendance at a sharing session is required to earn graduate credit from Dakota Wesleyan University. There will be personnel available to register you for the credit on Thursday night from 7:00 to 9:00 pm, and on Friday morning from 7:30 to 8:30 am. Check in the hotel lobby for the DWU table. A syllabus listing course requirements will be available at the time of registration. For more information, contact Rocky Von Eye at (605) 995-2625.

Next year’s conference will be **February 8, 9, & 10, 2018**
SDSTA

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The 2017 Conference Committee would like to offer a Special Thanks to …

Dakota Weslyan University and Rocky Von Eye for handling the credit.

Coke for helping provide refreshments throughout the conference.

All speakers for their dedication to the future of mathematics and science education.

All exhibitors for their enthusiastic participation.

The Huron Area Chamber of Commerce, The Huron Convention and Visitors Bureau for a great deal of help and cooperation.

The Huron Events Center & Crossroads Hotel for their help and generous hospitality.

All the conference participants who make all of our efforts worthwhile and without whom there would be no conference.

A SPECIAL THANKS GOES TO TIE FOR HELPING US WITH PROJECTORS!

Next year’s conference will be February 8, 9, & 10, 2018.

The 2017 Spring Conference is a joint venture of the South Dakota Science Teachers Association (SDSTA) and the South Dakota Council of Teachers of Mathematics (SDCTM)

Note: There is a common registration form for the conferences. One form is used to register for all activities, including SDSTA and SDCTM memberships.

ONE-day (SDCTM or SDSTA members) $50  Non-members $100  Students $15
includes the Noon Luncheon for that day

TWO-day (SDCTM or SDSTA members) $75  Non-members $125  Students $25
includes the Noon Luncheon for both days

The Friday Night Banquet is NOT included in the registration fee. A ticket for the banquet may be obtained at an additional cost of $25.

Because of a limited printing budget, the program was available in advance at the SDCTM website [www.sdctm.org] or SDSTA web site [www.sdsta.org]. Printed programs were not mailed, but were distributed on site with the registration materials.
Please take time to respond to the following questions concerning the conference. This information will help the program committee take steps to improve future conferences. Circle one in each group:

Content Area:       Math  Science  Both
Grade Band:        Elementary  Middle School  High School

What presentation or presentations did you feel were the most useful or helpful?

What made it (or them) good?

Were there any presentations that disappointed you?

Please give us your overall assessment of the conference along with any comments you would like to share.

Detach and fill in the following for a final prize to be sent after the conference. To register for the prize turn in this entry along with your evaluation form.

___________________________________________________
Name

___________________________________________________
Address

___________________________________________________
City, State, Zip Code
Please fill out your evaluation of the conference. We want next year's to be even better.

Do you use Twitter.com?  
Use #SDCTMandSDSTA  
To see other tweets  
or to make your own

Did you miss a handout?  
The presenter may have posted it on our Conference Wiki

https://2017-sdctm-sdsta-pdc.wikispaces.com/