

Teach With
All Your Heart!

25th
Annual

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		
	First Choice	Second Choice
7:00 PM	Session #:	Session #:
	Location: Prairie B or C	Location:
	Title: Sharing Session	Title:

Friday, Feb. 3, 2017		
Remember to visit the exhibits in the Lobby and Hallways of the Crossroads Hotel.		
	First Choice	Second Choice
8:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
9:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
10:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
Noon	Friday Noon Luncheon in Crossroads Hotel – Prairie A, B, C	
1:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
2:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
3:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
4:30 PM	SDCTM BUSINESS MEETING in Dakota C SDSTA BUSINESS MEETING in Dakota G	5:00 – 6:30 SOCIAL Hour
6:30 PM	Friday Night Banquet in Prairie Ballrooms A, B, C (Banquet Tickets Required, Cost is \$25)	

Saturday, Feb. 4, 2017		
	First Choice	Second Choice
8:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
9:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
10:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
11:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
12:30 PM	Saturday Noon Luncheon in Crossroads Hotel – Prairie A, B, C	
1:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
2:30 PM	Session #:	Session #:
	Location: Prairie B or C	Location:
	Title: Wrap - Up	Title:
3:30 PM	SDCTM & SDSTA JOINT BOARD MEETING in the BOARDROOM	

Next Year's Conference will be February 8, 9, & 10, 2018

Thursday 7:00pm

7:00pm-9:00pm
Thursday
Grade Level: K-12

Session: 1
Prairie B
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
Thursday
Grade Level: K-12

Session: 2
Prairie C
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
Repeats as Session 97
Friday
Grade Level: K-5

Session: 4
Prairie A
Math

Mariann Dolnick
Featured Speaker
marianndolnick@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

8:30am-9:20am **Session: 5**
Friday **Prairie B**
Grade Level: 6-12 Math

Featured Speaker

Eli Luberoff

Desmos

eli@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.

Friday 8:30am

8:30am-9:20am **Session: 7**
Friday **Dakota A**
Grade Level: K-5 Math

Presenter: Li Sun
Augustana University
Li.Sun@augie.edu

Making Wrong Right: Unlocking the Potential of Incorrect Answers

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.

8:30am-9:20am **Session: 6**
Friday **Prairie C**
Grade Level: 9-12 Science

Featured Speaker

Brenda Walsh

NSTA District IX Director

Eden Prairie High School

bwalsh@edenpr.org

Having Fun with Chemistry Formula Writing

Formula writing and naming is an essential skill in Chemistry. Help students practice with fun games and review sessions.

8:30am-9:20am **Session: 8**
Friday **Dakota B**
Grade Level: 9-12 Science

Presenter: Tracy Moody
Sanborn Central
Tracy.Moody@k12.sd.us

Simple and Sassy Science

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**
Friday **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**
Friday **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.

A limited number of Banquet tickets remain available. Purchase yours now before it's too late.

Friday 8:30am

8:30am-9:20am **Session: 10**
Friday **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**
Friday **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.

Friday 8:30am

8:30am-9:20am **Session: 12**
Friday **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

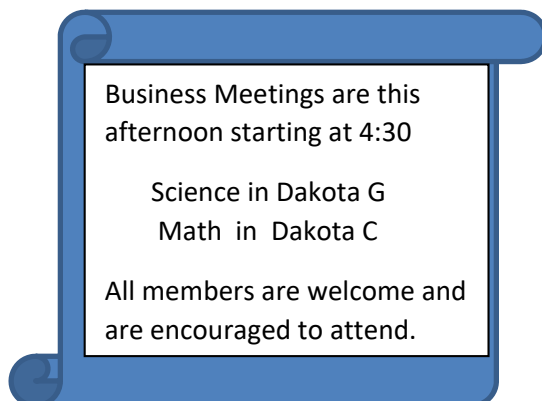
Learn how to get started with Google Classroom. I'm not saying I have a paperless classroom, but Google Classroom sure helps minimize what I take home to correct. All I need is a device with Internet to correct my students' assignments.

8:30am-9:20am **Session: 13**
Friday **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**
Friday **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

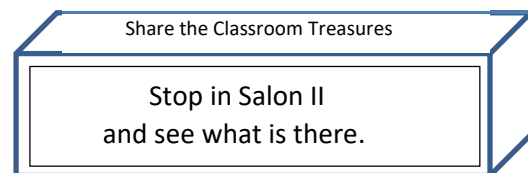
This presentation will identify and define the most desired soft skills that employers are looking for in their employees. After a discussion of the desired soft skills, examples will be discussed of how soft skills can be incorporated into lesson plans so students can perfect them in the classroom. 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**
Friday **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.



Share the Classroom Treasures

Stop in Salon II
and see what is there.

Friday 9:30am

9:30am-10:20am Session: 16
Repeats as Session 72
Friday 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.

Friday 9:30am

9:30am-10:20am Session: 18
Friday Prairie C
Grade Level: 6-8 Math

Featured Speaker

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

The Number Line Activity: Empowering Mathematical Thinking

Students can develop incredible fluency with mental mathematics using this easy-to-implement activity. Adaptations make the lesson a perfect fit for fractions, decimals, percent, and even algebra.
A ready-for-Monday handout is available.

9:30am-10:20am Session: 17
Repeats as Session 124
Friday Prairie B
Grade Level: 6-8 Science

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.

9:30am-10:20am Session: 19
Friday Dakota A
Grade Level: 9-12 Math

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.

Friday 9:30am

9:30am-10:20am **Session: 20**
Friday **Dakota B**
Grade Level: K-12

Presenter: SDSTA Officers and Friends
South Dakota Science Teachers
officers@sdsta.org
www.sdsta.org

Speed Date Classroom Innovations

Looking for something to do right away when you return? A cohort of SDSTA members will each share an activity or lesson for your science classroom using a speed-dating style rotation.

9:30am-10:20am **Session: 21**
Friday **Dakota C**
Grade Level: 6-8 Science

Presenter: Dr. Becky M. Bundy
Black Hills State University and Sanford
Underground Research Facility
Becky.Bundy@bhsu.edu
<http://www.sanfordlab.org/education/updates>

Waterworks- A New Sanford Underground Research Facility (SURF) Curriculum Unit

An environmental science curriculum unit focusing on the water cycle, why water is important for life, and the fate of contaminants in a watershed will be explored through participatory activities. The unit culminates with bioremediation and the wastewater treatment plant located at the Sanford Lab in Lead, SD.

Friday 9:30am

9:30am-11:20am (2hr) **Session: 22**
Friday **Dakota D**
Grade Level: K-5 Math

Presenter: Ashley Digmann & Rene' Pruitt
Dakota Wesleyan University
asdigman@dwu.edu
www.dwu.edu

Can You Escape?

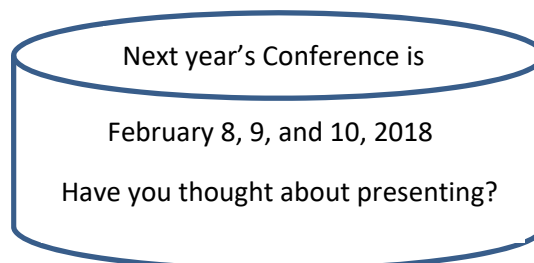
Incorporate Breakout EDU in the elementary and secondary math classroom. Engage your students with activities that encourage higher-order thinking, problem solving, collaboration, and fun! Join us for hands-on, minds-on, learning. Be prepared to escape!

9:30am-11:20am (2hr) **Session: 23**
Friday **Dakota E**
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 Peurse
Sharon.Vestal@sdsstate.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.




MORE MATH FOR MORE PEOPLE

For 26 years CPM EDUCATIONAL PROGRAM has been empowering mathematics students and teachers through exemplary curriculum, professional development, and leadership.

- Curriculum written by a group of teachers and professors
- Student-centered and problem-based lessons
- Free professional development for implementation
- Nonprofit and self published

We are pleased to support the South Dakota Joint Math and Science Teachers Conference. Stop by our booth to meet with a CPM mentor teacher, see our materials, and request a preview.

Visit CPM.ORG/cpminfo or scan the QR code to get more information and view our conference sessions.



CPM EDUCATIONAL PROGRAM

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.

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.

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

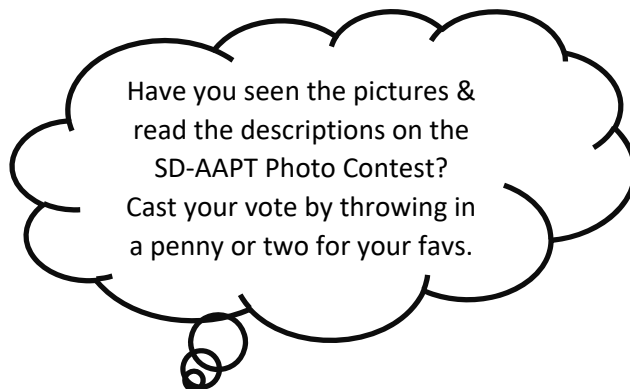
Learn how to really engage students in the preparation of, staining, and observation of onion root tips as well as take the process further to study substances that affect cell proliferation.

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.



Friday 10:30am

10:30am-11:20am Session: 32
Friday 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
Friday 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
Friday 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
Friday 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)

Friday 1:30pm

1:30pm-2:20pm **Session: 36**
Friday **Prairie C**
Grade Level: 6-8 Math

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

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.

1:30pm-3:20pm (2hr) **Session: 37**
Friday **Dakota A**
Grade Level: K-5 Math

Presenter: Kari Webb
Black Hills State University / Sanford
Underground Research Facility
Kari.Webb@bhsu.edu
www.sanfordlab.org

Deeper Learning in Three Dimensions: An Underground Journey

Student agency skyrockets when learners make sense of phenomena or design solutions using science and mathematical practices. Join us to explore a new unit created especially for South Dakota's elementary students, "There and Back Again: Measurement and Motion in the Journey to the Sanford Underground Research Facility."

Friday 1:30pm

1:30pm-2:20pm **Session: 38**
Repeats as Session 122
Friday **Dakota B**
Grade Level: 9-12 Science

Presenter: Kim Smeenk
South Dakota Envirothon
kim.envirothon.sd@gmail.com
<https://sdenvirothon.org/>

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!

1:30pm-2:20pm **Session: 39**
Friday **Dakota C**
Grade Level: 6-8 Science

Presenter: Marie Steckelberg, EdD
& DeVee Dietz
Steckelberg Consulting, LLC
Sturgis Williams Middle School
marie@steckelbergconsulting.com
www.SteckelbergConsulting.com

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**
Repeats as Session 63
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.

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

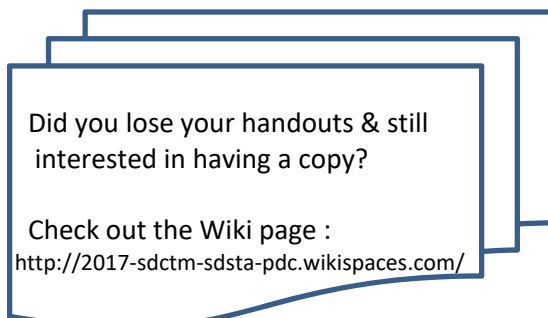
Project Based Learning is an integral part in today's education to increase student success in society. PBL focuses on complex questions to enhance critical thinking, problem solving, and collaboration by investigating a problem or challenge for a real-world scenario. In this session, grades 4-8 will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

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@sdstate.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 **Session: 44**
Friday **Dakota H**
Grade Level: 9-12 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 **Session: 46**
Friday **Prairie B**
Grade Level: 9-12 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 **Session: 45**
Repeats as Session 118
Friday **Prairie A**
Grade Level: K-5 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.

2:30pm-3:20pm **Session: 47**
Friday **Prairie C**
Grade Level: 6-8 Math

Featured Speaker
Brad Fulton
Mistletoe STEM Institute
brad@tttpress.com
www.tttpress.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 **Dakota B**
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 **Dakota C**
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.

Friday 2:30pm

2:30pm-3:20pm **Session: 50**
Friday **Dakota D**
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 **Dakota E**
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 **Dakota F**
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 **Dakota G**
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 **Dakota H**
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 **Symposium**
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**
Repeats as Session 85
Friday **Prairie A**
Grade Level: K-5 Math

Featured Speaker
Mariann Dolnick

mariandolnick@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: 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.

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

Featured Speaker

Eli Luberoff
Desmos

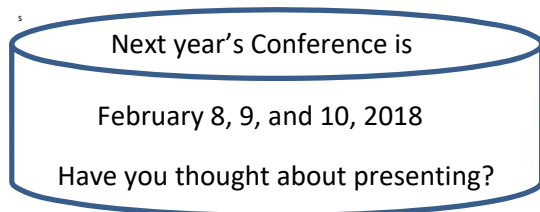
eli@desmos.com
<https://www.desmos.com/>

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.

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.



Friday 3:30pm

3:30pm-4:20pm **Session: 60**
Friday **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!

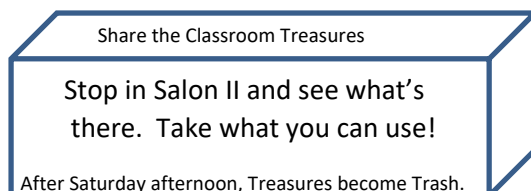
Are you tired of the same old activities? Join us to learn 3 ways to transform ordinary assignments into engaging activities. Receive examples, instructions, and templates to create your own versions of Lucky Buckets, Find Someone Who and Punch Out. Get your students moving both physically and mathematically!!!

3:30pm-4:20pm **Session: 61**
Repeats as Session 108
Friday **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**
Repeats as Session 123
Friday **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
Friday **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.

Friday 3:30pm

3:30pm-4:20pm

Friday

Grade Level: 6-8

Session: 64

Dakota F

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.

3:30pm-4:20pm

Friday

Grade Level: 9-12

Session: 65

Dakota G

Science

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

SD - AAPT Photo Contest

SD-AAPT Photo Contest & Annual Meeting
All Physics and/or Physical Science teachers are invited to the annual meeting for the final voting and judging of the photos and essays that have been submitted. Check out the photos in the hall Thursday night and/or Friday and put in your two cents worth. Vote by putting in a penny for your top choice or two.

Friday 3:30pm

3:30pm-4:20pm

Friday

Grade Level: K-5

Session: 66

Dakota H

Math

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

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.

Friday 4:30pm

4:30pm-5:30pm

Friday

Session: 67

Dakota C



SDCTM Meeting
www.sdctm.org

4:30pm-5:30pm

Friday

Session: 68

Dakota G

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!**

 **SDEPSCoR**
RESEARCH. EDUCATION. ECONOMIC DEVELOPMENT.
AND  **Fisher Science
Education**
INVITE YOU

**SDSTA/SDCTM
SOCIAL MIXER EVENT**



FRIDAY, 3RD
February 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 Salon
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: 71
Saturday Dakota G
Grade Level: 6-8 Science

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

Follow-Up for EDPS Summer Workshop

This is a closed session for participants who took part in the "Engineering Design for Physical Science" teacher workshop at SDSU during the Summer of 2016. Participants will share their experiences with implementing activities from the summer and new activities they developed.

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.

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

M³ - 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

8:30am-9:20am Session: 74
Saturday Prairie C
Grade Level: 6-8 Math

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.

Saturday 8:30am

8:30am-9:20am Session: 76
Saturday Dakota B
Grade Level: 6-8 Math

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.

8:30am-9:20am Session: 75
Saturday Dakota A
Grade Level: 9-12 Math

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.



MORE MATH FOR MORE PEOPLE

For 26 years CPM EDUCATIONAL PROGRAM has been empowering mathematics students and teachers through exemplary curriculum, professional development, and leadership.

- Curriculum written by a group of teachers and professors
- Student-centered and problem-based lessons
- Free professional development for implementation
- Nonprofit and self published

We are pleased to support the South Dakota Joint Math and Science Teachers Conference. Stop by our booth to meet with a CPM mentor teacher, see our materials, and request a preview.

Visit CPM.ORG/cpminfo or scan the QR code to get more information and view our conference sessions.



CPM EDUCATIONAL PROGRAM

Saturday 8:30am

8:30am-9:20am **Session: 77**
Saturday **Dakota C**
Grade Level: 9-12 Science

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

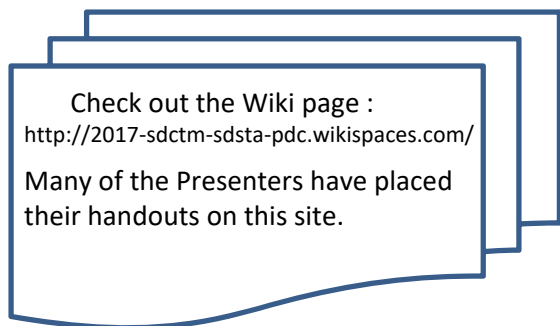
When students use online simulations to explore topics in math and science, conceptual understanding soars and the subjects come to life. In this session, attendees will participate in an interactive lab that matches their content area, and learn how they can incorporate these simulations into their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

8:30am-9:20am **Session: 78**
Saturday **Dakota D**
Grade Level: K-5 Math

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.



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: 80**
Saturday **Dakota F**
Grade Level: 6-8 Science

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.

8:30am-9:20am **Session: 81**
Saturday **Dakota G**
Grade Level: 6-8 Science

Presenter: Judy Vondruska and Suzette Burckhard
South Dakota State University
Judy.Vondruska@sdstate.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.

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.

8:30am-9:20am **Session: 83**
Saturday **Salon**
Grade Level: 9-12 Math

Presenter: Allen Hogue & 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.

Please fill out your evaluation of the Conference (form on page 39). We want next year's Conference to be even better than this year's. Thanks.

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**

mariandolnick@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.

9:30am-10:20am Session: 87
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.

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.

Saturday 9:30am

9:30am-10:20am
Saturday
Grade Level: K-5

Session: 90
Dakota D
Math

Presenter: Becky Walker
CESA 7/NCTM Affiliates Relation
Committee
bwalker@cesa7.org

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.

9:30am-10:20am
Saturday
Grade Level: 9-12

Session: 91
Dakota E
Math

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

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.

Saturday 9:30am

9:30am-10:20am
Saturday
Grade Level: 6-8

Session: 92
Dakota F
Science

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

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).

9:30am-10:20am
Saturday
Grade Level: 6-8

Session: 93
Dakota G
Science

Presenter: Judy Vondruska and
Suzette Burckhard
South Dakota State University
Judy.Vondruska@sdstate.edu
<http://edps.wikispaces.com/>

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 **Dakota H**
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.

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.

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

Featured Speaker **Mariann Dolnick**

marianndolnick@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 10:30am

10:30am-11:20am **Session: 98**
Repeat of Session 49
Saturday **Prairie C**
Grade Level: K-6 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.

10:30am-11:20am **Session: 99**
Saturday **Dakota A**
Grade Level: 6-8 Math

Presenter: Roxane Dyk
Teachwell
Roxane.Dyk@teachwell.org

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.

Saturday 10:30am

10:30am-11:20am **Session: 100**
Saturday **Dakota B**
Grade Level: 9-12 Science

Presenter: Lisa Cardillo & Matt Termansen
Harrisburg High School
Lisa.Cardillo@k12.sd.us;
Matthew.Termansen@k12.sd.us

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.

10:30am-11:20am **Session: 101**
Saturday **Dakota C**
Grade Level: 9-12 Math

Presenter: Fenecia Foster
Southeast Technical Institute
Fenecia.Foster@southeasttech.edu

Every View Has Value

The presenter will share an activity that has students piece together the corresponding four views of a function for a number of situations and then determine which view is most helpful to address the question at hand. The activity can be adapted for specific types of functions.

Saturday 10:30am

10:30am-11:20am **Session: 102**
Saturday **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 **Session: 103**
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

10:30am-11:20am **Session: 104**
Saturday **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.

10:30am-11:20am **Session: 105**
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/>

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.

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.

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.

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 Peurse
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
annelewis@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
Saturday
Grade Level: 6-8

Session: 114
Dakota G
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.

11:30am-12:20pm
Saturday
Grade Level: 9-12

Session: 115
Dakota H
Math

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

UMP: What are the Chances II

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 high school students.

Saturday 12:30pm

12:30pm-1:30pm
Saturday

Session: 116
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
Saturday
Grade Level: 9-12

Session: 117
Prairie A
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.

Saturday 1:30pm

1:30pm-2:20pm **Session: 118**
Repeat of Session 45
Saturday **Prairie B**
Grade Level: K-6 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.

1:30pm-2:20pm **Session: 119**
Saturday **Prairie C**
Grade Level: 6-8 Math

Featured Speaker **Brad Fulton** **Mistletoe STEM Institute**

brad@tttpress.com
www.tttpress.com

The Emancipation of Intelligence: Using Math Projects

Beautiful and mathematically rich math projects are the easy and empowering way to help students of all levels demonstrate and cement their conceptual understanding and computational fluency. Research validated and classroom proven strategies will be presented. The comprehensive handout will get you started right away.

Saturday 1:30pm

1:30pm-2:20pm **Session: 120**
Saturday **Dakota A**
Grade Level: 9-12 Math

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

Getting more from your tablet.

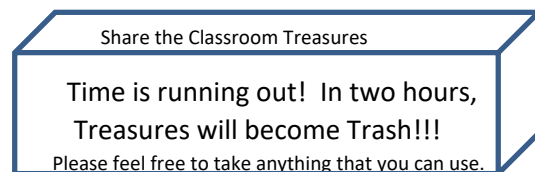
Explore ways to combine tablet technology and various programs such as Class Notebooks, Sway, Blackboard Learn, and Planbook. You may never go back to paper! (This session focuses on tablet use.)

1:30pm-2:20pm **Session: 121**
Saturday **Dakota B**
Grade Level: K-5 Math

Presenter: Roxane Dyk
Teachwell
Roxane.Dyk@teachwell.org

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.



Thank You to those that brought items.

Saturday 1:30pm

1:30pm-2:20pm **Session: 122**
Repeat of Session 38
Saturday **Dakota C**
Grade Level: 9-13 Science

Presenter: Kim Smeenk
South Dakota Envirothon
kim.envirothon.sd@gmail.com
<https://sdenvirothon.org/>

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!

1:30pm-2:20pm **Session: 123**
Repeat of Session 62
Saturday **Dakota D**
Grade Level: 6-9 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.

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

Saturday 1:30pm

1:30pm-2:20pm **Session: 124**
Repeat of Session 17
Saturday **Dakota F**
Grade Level: 6-9 Science

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.

1:30pm-2:20pm **Session: 125**
Saturday **Dakota G**
Grade Level: 6-8 Science

Presenter: Mark Iverson
Watertown Middle School
Mark.A.Iverson@k12.sd.us

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.

Please fill out your evaluation of the Conference (form on page 39). We want next year's Conference to be even better than this year's. Thanks.

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.

1:30pm-2:20pm **Session: 127**
Saturday **Prairie A**
Grade Level: 6-12 Math

Featured Speaker

Eli Luberoff

Desmos

eli@desmos.com

<https://www.desmos.com/>

Scatterplots, Regressions, and Optimization, Oh My!

This session goes out to the statistics nuts. Come explore data with the newly released regression feature on Desmos. Learn how to fit any model, in any form, and how to watch it change in real time. Eli will explain what's going on behind the scenes with regressions in Desmos, and show some secret tips and tricks.

Saturday 1:30pm

1:30pm-2:20pm **Session: 128**
Saturday **Dakota E**
Grade Level: 9-12 Science

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

Demos to Spark Interest

Matt and Larry have melted carpets and chocolates to illustrate ways to engage students in learning activities. You never know what they'll do until it's over (because they don't know) but it's sure to be exciting, funny, and illustrate techniques and materials that you can use in your classroom.

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)

2:30pm-3:20pm **Session: 130**
Saturday **Prairie C**

Facilitator: Liz McMillan; www.sdsta.org

Science Wrap-Up

Science Round table to share and discuss the conference.

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:

ChemEd 2017	Matt Miller	
CPM Educational Program	Sharon Rendon	Bob Petersen
Houghton Mifflin Harcourt	Matt Misialek	Billy Pugliese
Inspire Innovation Lab / Nerd Nook	Carrie Leopold	
McGraw-Hill	Carol Heisel	
National Science Teachers Association	Brenda Walsh	Randy Brooks
Precision Microscope Sales	Benjamin Losby	
Project Lead The Way	Sonya McNamara	
RightStart Mathematics by Activities for Learning, Inc.	Kathleen Cotter Lawler	
Sanford Research	Tamara Ledeboer	Ben Benson
SD Department of Transportation TRAC Program	Ann Campbell	Tammy Williams
South Dakota Discovery Center	Anne Lewis	Rhea Waldman
South Dakota Envirothon	Kim Smeenk	
South Dakota Public Broadcasting	Steven Rokusek	
Technology and Innovation in Education	Marcia Torgrude	LuAnn Lindskov

*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

President:

Elizabeth McMillan
Sanford Center
2301 East 60th Street North
Sioux Falls, SD 57104
Elizabeth.McMillan@SanfordHealth.org

President-Elect:

Mark Iverson
1700 11th St. NE
Watertown, SD 57201
Mark.A.Iverson@k12.sd.us

President:

Julie Olson
600 W. 3rd Ave.
Mitchell, SD 57301
Julie.Olson@k12.sd.us

Treasurer:

Deirdre Peck
409 S. Kline Street
Aberdeen, SD 57401
Deirdre.Peck@k12.sd.us

Secretary:

Tiffany Kroeger
46828 262nd St
Sioux Falls, SD 57107
Tiffany.Kroeger@k12.sd.us

Science Liaisons:

Jennifer Fowler
23225 Clear Creek Rd
Rapid City, SD 57702
Jennifer.Fowler@k12.sd.us

Lindsay Kortan
709 Maple St.
Tyndall, SD 57066
Lindsay.Kortan@k12.sd.us

Michelle Bartels
17761 440th Ave
Hazel, SD 57242
Michelle.Bartels@k12.sd.us

Janet Briggs
1200 University Unit 9005
Spearfish, SD 57799
Janet.Briggs@bhsu.edu

Larry Browning
2061 First St.
Brookings, SD 57006
Larry.Browning@sdstate.edu

NSTA Liaison:

Ramona Lundberg
103 9th Ave South
Clear Lake, SD 57226
Ramona.Lundberg@k12.sd.us

SDCTM

President:

Cindy Kroon
46223 262 ST
Hartford, SD 57033
Cindy.Kroon@k12.sd.us

President-Elect:

Allen Hogie
416 Country Club Ave.
Brandon, SD 57007
Allen.Hogie@k12.sd.us

Past-President:

Ellie Cooch
219 Union Street
Spearfish, SD 57783
ecooch@spearfish.k12.sd.us

Vice-President:

Steve Caron
907 South 16th Street
Aberdeen, SD 57401
Steve.Caron@k12.sd.us

Secretary:

Lori Stverak
4840 Homestead Ave.
Rapid City SD 57703
Lori.Stverak@k12.sd.us

Treasurer:

Jay Berglund
204 S Exene St.
Gettysburg, SD 57442
Jay.Berglund@k12.sd.us

NCTM Liaison:

Samra Trask
Box 34
Wasta, SD 57791
Samra.Trask@k12.sd.us

Elementary Liaison:

Merideth Wilkes
Black Hawk Elementary
7108 Seeaire ST
Black Hawk SD 57718
merideth.wilkes@k12.sd.us

MS Liaison:

Crystal McMachen
4501 Park Dr.
Rapid City, SD 57702
Crystal.McMachen@k12.sd.us

Secondary Liaison:

Lindsey Brewer
Huron High School
Huron, SD
Lindsey.Brewer@k12.sd.us

CONFERENCE

Conference Coordinator:

Jean Gomer
Box 96
White, SD 57276
jeanann@itctel.com

Vendor Coordinator

Kevin McElhinney
302 E. 1st Street
Plankinton, SD 57368
Kevin.McElhinney@k12.sd.us

Hospitality Coordinators:

Jennifer Fowler
23225 Clear Creek Road
Rapid City, SD 57702
Jennifer.Fowler@k12.sd.us

Technology Coordinator

William Gripentrog
916 2nd St NE
Watertown, SD 57201
William.Gripentrog@k12.sd.us

COMMUNICATIONS

SDSTA Newsletter Advisors:

Webmaster:

James Stearns
15 N. Fifth St.
Groton, SD 57445
James@sdsta.org

Julie Olson
600 W. 3rd Ave
Mitchell, SD 57301
Julie@sdsta.org

SDCTM Newsletter Editor:

Sheila McQuade
2105 S Melanie Ln
Sioux Falls, SD 57103
SMcquade2@sfcss.org

SDCTM Webmaster:

Cindy Kroon
46223 262 ST
Hartford, SD 57033
Cindy.Kroon@k12.sd.us

Post-Secondary Liaison--Math:

Dan VanPeursesem
Dept of Mathematical Science, USD
414 E. Clark St.
Vermillion, SD 57067
dvanpeursesem@usd.edu

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

Dakota Wesleyan 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) includes the Noon Luncheon for that day	\$50	Non-members	\$100	Students \$15
TWO-day (SDCTM or SDSTA members) includes the Noon Luncheon for both days	\$75	Non-members	\$125	Students \$25

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.

**2017 Mathematics and Science Conference
SDSTA & SDCTM**

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

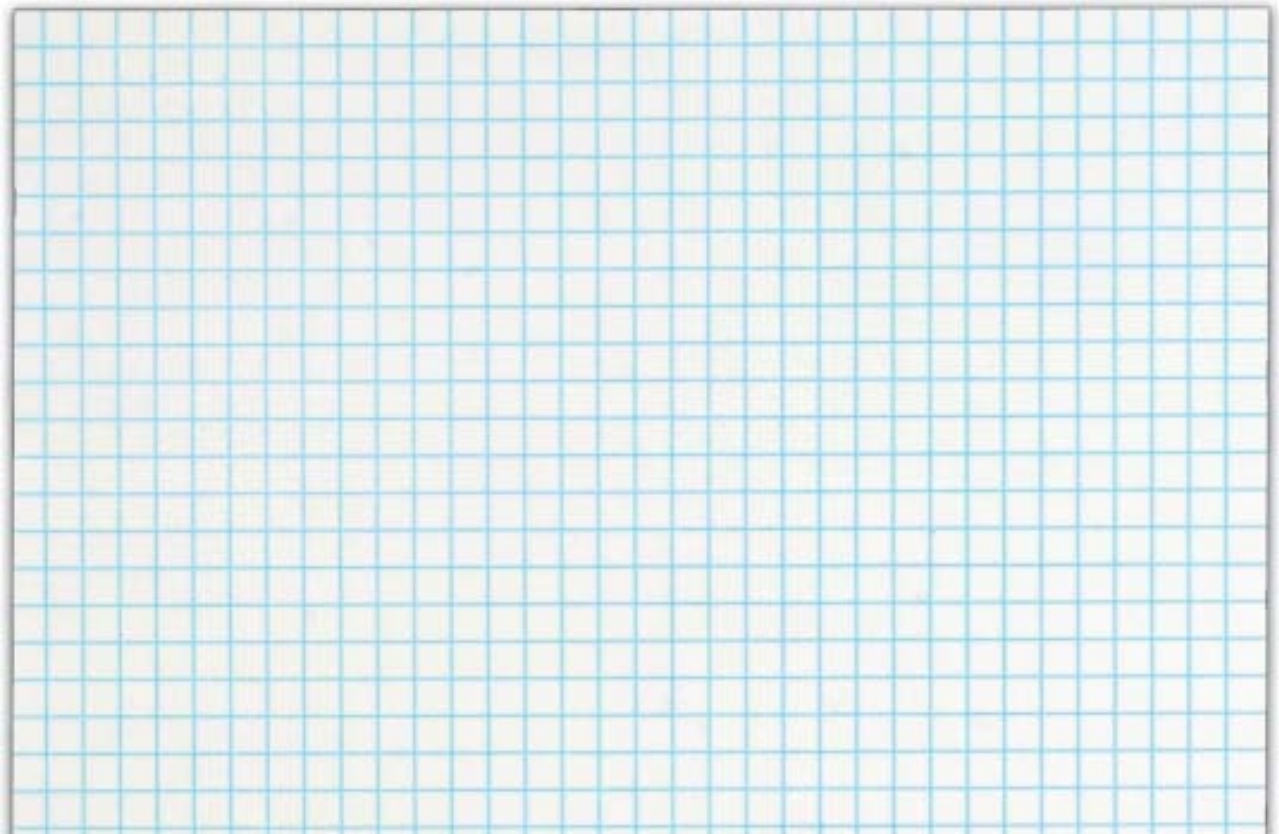
Please fill out your
evaluation of the
conference. We want next
year's to be even better.

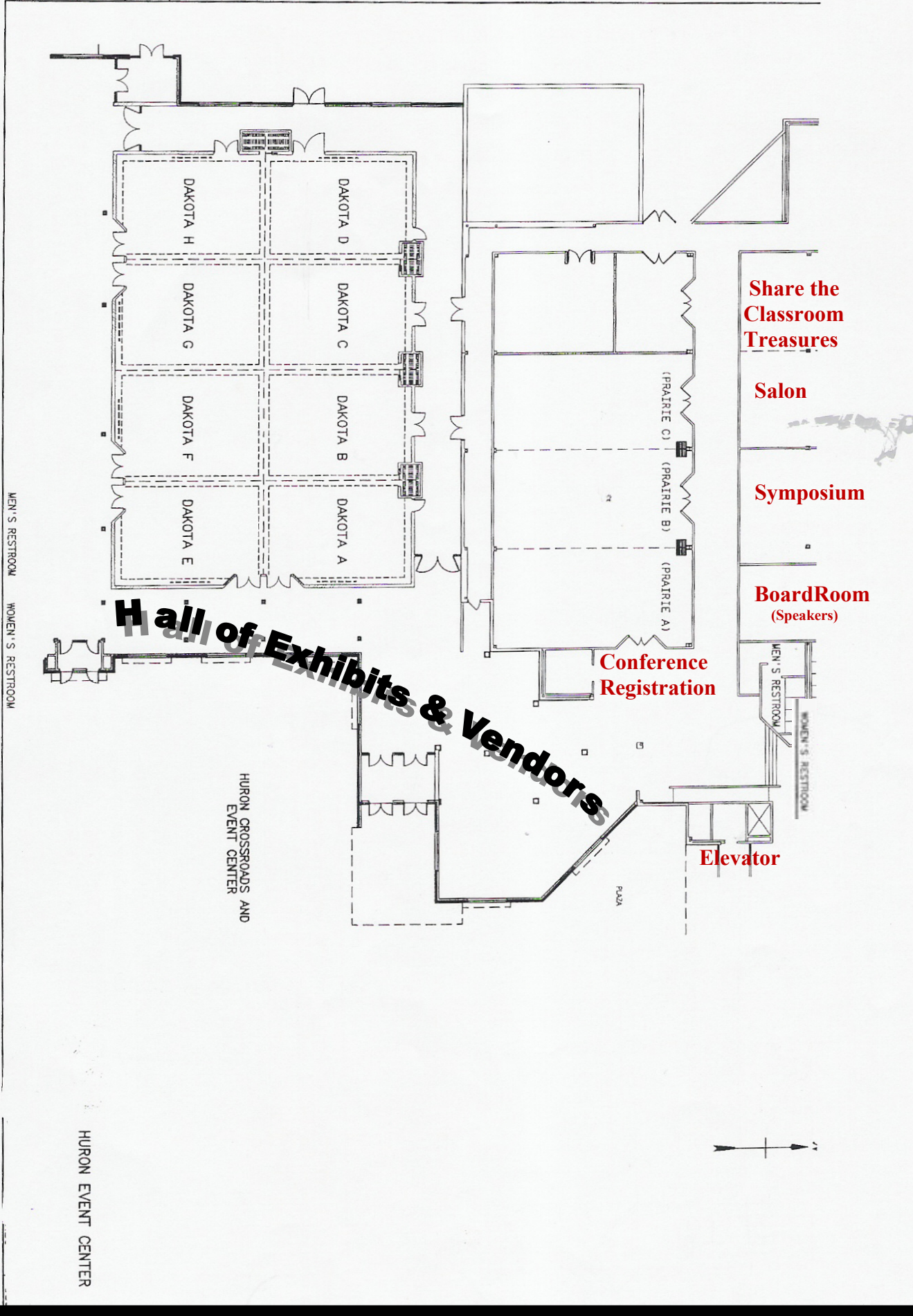
Do you use Twitter.com?
Use #SDCTMandSDSTA
To see other tweets
or to make your own

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

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

Notes





Share the Classroom Treasures

Salon

Symposium

BoardRoom (Speakers)

Conference Registration

Elevator

Hall of Exhibits & Vendors

HURON CROSSROADS AND EVENT CENTER

HURON EVENT CENTER

