

# 23rd Annual

## Joint Conference

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

**February 5, 6, & 7, 2015**  
**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 4, 5, & 6, 2016.**

# ***Featured Speakers***

## **BANQUET SPEAKER — Bill Zubke**



Bill was born in South Dakota and grew up in North Dakota and Minnesota (or maybe just grew older...as the up has not yet been achieved!) He graduated with a BS degree (maybe the absolutely perfect descriptor for his style) in speech/theatre/English. Bill started teaching at Fargo North and finished teaching in Watertown 34 years later. He is currently retired, but enjoys an encore career speaking to groups. Bill has one wife that has been with him for 41 years and has had several dogs that have owned them. He was a Christa McAuliff award recipient, SD Teacher of the Year in 2000, and the SD Pork Cookoff King and national finalist thanks to beer and pork chops! (The beer was on the pork chops, but possibly in the judges as well!) Even though he views himself as a work in progress, his objective is to leave a positive legacy. His personal mission statement is "to add value to every circumstance I encounter."

## **OTHER FEATURED SPEAKERS**

**Roxie Ahlbrecht** - Roxie Ahlbrecht is a second-grade teacher at Robert Frost Elementary School in Sioux Falls, South Dakota, USA. She recently spoke with Nicole Strangman, editorial assistant at ROL, about the Apple Bytes website created by her students. Using her knowledge of technology and interest in art, Roxie helped her class build a fun and exciting site that served to provide valuable writing lessons. "There is nothing like looking at a kid's eyes when they first see their work come up on a computer."

**Marie B. Copeland** - does extensive EMATHS training. She is bringing her presenting partner to assist with Embracing Mathematics, Assessment & Technology in High Schools. EMATHS professional learning experiences provide secondary mathematics teachers the opportunity to: 1) increase content knowledge and have deeper insights into mathematics, 2) maximize the effective use of technology in instruction, 3) use research-based pedagogy to create models of instruction that incorporate communication, inquiry and investigation; and 4) implement formative assessment for improved instruction in Algebra I, Geometry, and Algebra I.

**Cathy Ezrailson** - has been an Associate Professor of Science Education at USD for eight years. Cathy earned her Ph.D. From Texas A&M University in Curriculum & Instruction: Physics Education. She has taught high school physics geology, astronomy and geology, was a Physics Teaching Resource Agent and active member of AAPT for 30 years, and has been the managing editor of ThePhysicsFront.org - the Physics/Physical Science Digital Library for 12 year. Her research interests include science safety in the classroom and lab at all instructional levels. In 2000, Cathy was the PAEMST Science Teacher of the Year from Texas. She is currently finishing a book (with her co-author the oceanographer David Shonting) telling the story of the asteroid Chicxulub that hit the Earth 70 million years ago, causing the extinction of the dinosaurs.

**SD Highway Patrol – Matthew Peterson, Mike Weber, John Lord w/Aros, and Brian Biehl w/Zara.** After a total of 80 years of working for law enforcement, this team will be presenting on a variety of topics at our Math & Science Professional Development Conference. The STEM activities they'll be dealing with include Accident Reconstruction, the Biology of Drug Recognition, and the science of a dog's olfactory system to detect drugs.

# **2015 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 5, 2015**

7:00 PM - 9:00 PM	Evening Sessions	(See Program)
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### **Friday, February 6, 2015**

7:00 AM - 4:20 PM	Registration Open	Pre-Function Area
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8:00 AM - 5:00 PM	Exhibits Open	Pre-Function Area
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8:30 AM - 11:20 AM	Morning Sessions	(See Program)
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11:45 AM - 1:10 PM	Friday Luncheon (cost included in the registration fee)	Prairie A, B, C
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1:30 PM - 4:20 PM	Afternoon Sessions	(See Program)
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4:30 PM	SDCTM Business Meeting SDSTA Business Meeting	Dakota C Dakota G
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5:30-6:45 PM	Social Hour CASH BAR	Pre-Function Area
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7:00 PM	Friday Evening Banquet (Cost is \$25)	Prairie A, B, C
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### **Saturday, February 7, 2015**

7:00 AM - 11:20 AM	Registration Open	Pre-Function Area
7:00 AM - 8:00 AM	Breakfast Meeting Presidential Awardees (Past & Present)	Salon

8:30 AM - 11:20 AM	Morning Sessions	(See Program)
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12:00 Noon - 1:00 PM	Saturday Luncheon (cost included in the registration fee)	Prairie A, B, C
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1:00 PM - 3:50 PM	Afternoon Sessions	(See Program)
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4:00 PM	Joint SDCTM & SDSTA Executive Board Meeting	Boardroom
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**SDSTA/SDCTM Joint Conference 2015 Planner**

<b>Thursday, Feb. 5, 2015</b>		
	First Choice	Second Choice
7:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:

<b>Friday, Feb. 6, 2015</b>		
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:
<b>Noon</b>	<b>Friday Noon Luncheon in Crossroads Hotel – Prairie A, B, C</b>	
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	
7 PM	Friday Night Banquet in Prairie Ballrooms A, B, C (Banquet Tickets Required-Cost is \$25)	

<b>Saturday, Feb. 7, 2015</b>		
	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:
<b>Noon</b>	<b>Saturday Noon Luncheon in Crossroads Hotel – Prairie A, B, C</b>	
1:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
2:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
3:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
4:00 PM	SDCTM & SDSTA JOINT BOARD MEETING IN THE BOARDROOM	

Next Year's Conference will be February 4, 5, & 6, 2016

# ***Program for 2015 Joint Conference***

***Special thanks goes to TIE for the use of the projectors***

**Thursday**

**7 pm**

**Friday**

**8:30 am**

**7:00-9:00 pm**

**Dakota C**

**Session: 1**

**Feb. 5, 2015**

**Grade Level:** All

**Presenter:** Ellie Cooch

SDCTM

[ecooch@spearfish.k12.sd.us](mailto:ecooch@spearfish.k12.sd.us)

<http://www.sdctm.org>

## **Math Sharing Session**

Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity or lesson. Or just come!

**7:00-9:00 pm**

**Dakota G**

**Session: 2**

**Feb. 5, 2015**

**Grade Level:** All

**Presenter:** Liz McMillan

SDSTA

[Elizabeth.McMillan@SanfordHealth.org](mailto:Elizabeth.McMillan@SanfordHealth.org)

<http://www.sdsta.org>

## **Science Sharing Session**

Bring an idea to share with the group. If it is a lab idea, bring 30 copies to pass out to the participants.

**8:30-10:20 am**

**Prairie A**

**Session: 3**

**Feb. 6, 2015**

**Grade Level:** 9-12

## **FEATURED SPEAKERS**

**Marie Copeland & Michael Lehman**

EMATHS-Embracing Mathematics Assessment

Technology in High School

[mariecopeland@gmail.com](mailto:mariecopeland@gmail.com)

## **A Look at the Unit Circle**

Let's introduce our students to the study of trigonometry on the unit circle and then build the trigonometric ratios using transformations. This approach naturally leads to a smooth transition to the study of the trigonometric functions and right triangle trigonometry.

**Do you have your banquet Ticket?**

**You can still buy one  
from Steve until Noon**

**\$25.00**

**Speaker-Bill Zubke**

**7 pm Friday**

**Friday**

**8:30 am**

**8:30-9:20 am**

**Prairie B**

**Session: 4**

**Feb. 6, 2015**

**Grade Level:** K-12

**FEATURED SPEAKER**

**Mike Welter**

SD Highway Patrol  
mike.welter@state.sd.us

**The Biology of Drug Recognition**

This session will focus on the effects drugs have on humans and how different human reactions identify the type of drug that has been ingested. Pupil dilation, body temperature and eye convergence are some of the physical characteristics use with a classification matrix to determine the drugs used in the cases presented.

**8:30-10:20 am**

**Prairie C**

**Session: 5**

**Feb. 6, 2015**

**Grade Level:** K-5

**FEATURED SPEAKER**

**Roxie Ahlbrecht**

pebbles@sio.midco.net

**Multiplicative Thinking**

Students develop multiplication and division conceptually through building knowledge of units and composites. This session will focus on instructional activities to build student understanding of multiplicative thinking.

**Friday**

**8:30 am**

**8:30-9:20 am**

**Dakota A**

**Session: 6**

**Feb. 6, 2015**

**Grade Level:** K-12

**Presenter:** Mark Iverson

Watertown Middle School  
Mark.a.iverson@k12.sd.us

**Demonstrations to Shock and Amaze**

If you have been looking for ways to "spice-up" your lessons, this is for you. I will offer several different demonstrations I have found to capture student attention and take the fear out of using bangs and booms in class.

**8:30-10:20 am**

**Dakota B**

**Session: 7**

**Feb. 6, 2015**

**Grade Level:** 6-12

**Presenter:** Sharon Rendon

CPM Educational Program  
rendon@cpm.org  
<http://www.cpm.org>

**Empowering Students to Make Mathematical Connections**

Participate in activities designed to develop a rich understanding of the connections between tables, graphs, rules, and situations. Learn to help students move from each representation to the others while developing a deep understanding of the CCSS mathematical practices. Leave with ideas and materials you can use in your own algebra classes.

**Friday**

**8:30 am**

**8:30-9:20 am**

**Dakota C**

**Session: 8**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Emily Koehler

DeSmet HS

Emily.koehler@k12.sd.us

### **Twitter for Teachers**

Come join the wonderful world of Twitter! Teachers across the globe have flocked to Twitter as a source of instant, personal professional development. Come see why teachers say that Twitter is the best place to learn, share ideas, and meet other teachers like you! (All levels, all subjects.)

**8:30-9:20 am**

**Dakota D**

**Session: 9**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Sue Brokmeier, Lynda Venhuizen &

Larry Browning

SDSU

Sue.Brokmeier@sdsstate.edu

### **To Hands-on--and Beyond!**

In order to build physical science content knowledge and confidence in teaching K-5, a number of strategies including hands-on, robotic, concept mapping, and web-based research activities will be discussed. Results from introducing these strategies in higher education and elementary education classrooms will be presented.

**Friday**

**8:30 am**

**8:30-9:20 am**

**Dakota E**

**Session: 10**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Repeat of Session 93**

**Presenter:** Anne Lewis

SD Discovery Center

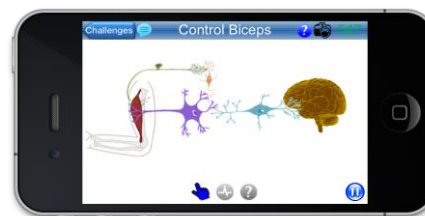
anne.lewis@sd-discovery.com

http://www.sd-discovery.com

### **GLOBE in South Dakota**

GLOBE is a world wide, hands-on, school based science education program. The SD Discovery Center and Outdoor Campus West are partnering to support this exciting opportunity to investigate and monitor environmental systems here in SD. Get a sneak peek at our summer professional development as well as a few GLOBE goodies.

**Learning neuroscience should be fun. Seriously.**



**Try iNeuron®**

**and see for yourself.**

- Get iNeuron on the App Store.
- Come to our presentation, play iNeuron. Hijinks may ensue.
- Visit the Andamio Games booth. Learn more. Get cool stuff. Geek out about edtech.
- Visit the Andamio Games booth. Learn more. Get cool stuff. Geek out about edtech.

[adam.gordon@andamiogames.com](mailto:adam.gordon@andamiogames.com)

**Friday**

**8:30 am**

**8:30-10:20 am**  
**Dakota F**

**Session: 11**  
**Feb. 6, 2015**

**Grade Level:** K-5      **Repeat of Session 71**

**Presenter:** Peggy Norris  
BHSU/Sanford Underground Research Facility  
pnorris@sanfordlab.org

**SciGirls: Proven Strategies  
for Engaging Girls in STEM**

This hands-on workshop will highlight science, engineering, and technology activities designed to engage upper elementary and middle school students in STEM, developed by PBS in conjunction with the SciGirls television program. The SciGirls approach is rooted in research about how to engage girls in STEM. Participants will take home sample kits.

**8:30-9:20 am**  
**Dakota G**

**Session: 12**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Olga Stafford  
SDSU  
olga.stafford@sdstate.edu

**Experimenting with a Pipe Flute (Part 1)**

A simple pipe flute will be built using pieces of PVC pipe. The flute can be used to measure resonance frequencies of open or closed pipes. The pipe flute allows students in a physics class to study an example of an "edge tone" device that produces discrete sound frequencies.

**Friday**

**9:30 am**

**9:30-10:20 am**  
**Prairie B**

**Session: 13**  
**Feb. 6, 2015**

**Grade Level:** K-12

**FEATURED SPEAKER**

**Matthew Petersen**  
SD Highway Patrol  
matthew.petersen@state.sd.us

**Accident Reconstruction—**

**STEM on the Highways of SD**

Trooper Petersen has very specialized accident reconstruction skills that require intense training in physics, trigonometry, and engineering. He will immerse participants in investigating crash scenes using examples of actual accidents that he has reconstructed using his skills to determine velocity, speed and impact.

**Continue your education as a Coyote!**  
**University of South Dakota School of Education**

**Undergraduate Teaching Majors**

- |      |   |
|------|---|
| K-8  | Elementary Education  |
| 7-12 | Biology, Chemistry, Earth Science, English, History, Mathematics, Physics, Political Science, Speech Communication, Theatre |
| K-12 | Art, French, German, Music, Physical Education, Spanish, Special Education*   |

\*Double Major: The Special Education major must be paired with Elementary Education or a 7-12/K-12 teaching major.

**Undergraduate Non-Teaching Majors**

*Kinesiology and Sport Science*  
(Exercise Science or Sport Management Specialization)



**SCHOOL OF EDUCATION STUDENT SERVICES**  
414 East Clark Street | Vermillion, SD 57069  
www.usd.edu/ed | 605-677-5612



**Friday**

**9:30 am**

**9:30-10:20 am**  
**Dakota A**

**Session: 14**  
**Feb. 6, 2015**

**Grade Level:** 6-8

**Presenter:** Dr. Erin Nyren-Erickson  
HQC Biosciences, Inc/Great Plains STEM Ed Center  
nyrenerickson@hqcbio.com  
<http://www.hqcbio.com>

**Chemistry Techniques for the 6-8 Classroom**

Methods and techniques in chemistry play an important role in a variety of STEM fields. Early introduction to these techniques presents a valuable opportunity for students to be more competitive for STEM jobs. Commonly used techniques, such as chromatography, ELISA, electrophoresis, and more are presented for the middle school classroom.

**9:30-10:20 am**  
**Dakota C**

**Session: 15**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Kelly Kukull  
& Barb Stoflett  
Pearson  
<http://pearsonsystemofcourses.com/>

**The System of Courses**

Looking for a modern digital mathematics solution? We invite you to examine the possibilities with this dynamic new comprehensive program to meet the needs of every student in your classroom. Welcome to the next generation of teaching and learning.

**Friday**

**9:30 am**

**9:30-10:20 am**  
**Dakota D**

**Session: 16**  
**Feb. 6, 2015**

**Grade Level:** K-5

**Repeat of Session 90**

**Presenter:** Danette Jarzab  
SD Discovery Center  
danettejarzab@sd-discovery.com  
<http://www.sd-discovery.com>

**Math-Ready to Go!**

Our GEMS (Great Explorations in Math & Science) kits are filled with ready-to-go math activities that support state standards. This session will include activities from these math kits: Build It Festival (K-6), Frog Math (K-3), Math on the Menu (3-5), and In All Probability (3-6).

**9:30-10:20 am**  
**Dakota E**

**Session: 17**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** David Doherty  
Bitwixt Software Systems  
ddoherty@bitwixt.com  
<http://www.bitwixt.com>

**Facilitating Students' Understanding of the Structure and Properties of Matter**

Progressing from middle to high school, expectations are that students' understanding of the structure and properties of matter will increase in complexity. We will demonstrate inquiry-based curriculum that uses interactive 3D atomic and molecular models, on iPads and laptops, to visually facilitate and empower this growth in students' understanding.

**Friday**

**9:30 am**

**9:30-10:20 am**  
**Dakota G**

**Session: 18**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Olga Stafford  
SDSU  
olga.stafford@sdstate.edu

**Experimenting with a Pipe Flute (Part 2)**

A simple pipe flute will be built using pieces of PVC pipe. The flute can be used to measure resonance frequencies of open or closed pipes. The pipe flute allow students in a physics class to study an example of an "edge tone" device that produces discrete sound frequencies.

**9:30-11:20 am**  
**Dakota H**

**Session: 19**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Nick Restivo  
MOEMS  
nrestivo@moems.org

Unpacking Geometry from Boxes You Create Transform used greeting cards into boxes, while discovering geometry concepts that rely on definitions associated with parallelograms. Real life, non-routine problems using those properties will be explored.

Have you checked out  
"Share the Classroom  
Treasures"?

Stop in Salon II  
and see what is there.

**Friday**

**9:30 am**

**9:30-10:20 am**  
**Symposium**

**Session: 20**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Facilitator:** Dan VanPeurse, USD  
SD BOR Representatives for Mathematics  
Dan.VanPeurse@usd.edu

**Discussions with Higher Education**

Come and ask questions about policies affecting your students as they transition to higher education. We will also have data on how the first year went with the low tuition and dual enrollment courses.

**Friday**

**10:30 am**

**10:30-11:20 am**  
**Dakota A**

**Session: 21**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Repeat of Session 80**

**Presenter:** Sheila McQuade  
O'Gorman HS  
smcquade2@sfcss.org

**Using the TI-Nspire in Geometry**

As a teacher, my favorite activities lead my students to discover geometry concepts. Participants will use Nspire and work through some of the activities I use with my students. The activities I will present could be re-written to be used with Geometer's Sketchpad, Geogebra, or the Cabri Jr. app on the TI-84. Presenter will have Nspires for participants to use.

**Friday**

**10:30 am**

**10:30-11:20 am**

**Dakota B**

**Session: 22**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Sharon Rendon

CPM Educational Program

rendon@cpm.org

**Exponential Explorations**

Come and explore and investigate problems around the concept of exponential equations. Learn how your students can develop an understanding of this concept through connections to geometric sequences and multiple representations. You will leave with problems you can implement this year.

**10:30-11:20 am**

**Dakota C**

**Session: 23**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Kathleen Cotter Lawler

RightStart Mathematics

Kathleen@RightStartMath.com

<http://www.rightstartmath.com>

**Place Value: The Foundation of Number Sense**

Place value is the foundation, the most important concept, in arithmetic. Place value has a static component, indicating how numbers are recorded, and a dynamic component occurring during an arithmetic operation, involving trading between denominations. We need to teach this right from the start.

**Friday**

**10:30 am**

**10:30-11:20 am**

**Dakota D**

**Session: 24**

**Feb. 6, 2015**

**Grade Level:** K-5

**Repeat of Session 96**

**Presenter:** Danette Jarzab

SD Discovery Center

danettejarzab@sd-discovery.com

<http://www.sd-discovery.com>

**Science-Ready to Go**

Our GEMS (Great Explorations in Math & Science) kits are filled with ready-to-go science activities that support state standards. This session will include activities from these science kits: Bubble Festival (K-6), Liquid Explorations (1-3), Electric Circuits (3-6), and Space Science (3-5).

**10:30-11:20 am**

**Dakota E**

**Session: 25**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Adam Gordon & Julie S. Mike

Andamio Games

adam.gordon@andamiogames.com

<http://www.andamiogames.com>

**Collaborative STEM Games for Mobile Devices**

iNeuron, available on the App Store, teaches the basics of neuroscience, first with individualized instruction, then with group challenges, all delivered on classroom mobile devices. We'll demonstrate how serious games and scaffolded, standards-based curriculum can lead to authentic collaboration and effective learning. Then we'll all play iNeuron together!

**Friday**

**10:30 am**

**FRIDAY**

**NOON**

**10:30-11:20 am**

**Session: 26**

**Dakota F**

**Feb. 6, 2015**

**Grade Level:** 6-8

**Presenter:** Chris Larson, Sharon Vestal  
& Gary Hatfield  
SDSU  
christine.larson@sdstate.edu

**Practicing Mathematical Practices:  
Probability & Statistics**

The Practicing the Mathematical Practices workshop will focus on demonstrating the eight Standards for Mathematical Practice while reviewing content standards in 6-8 statistics and probability. We will provide 6-8 teachers with hands-on activities for their classroom while aligning with the CCSS-M statistics and probability standards.

**9:30-10:20 am**

**Session: 26.5**

**Dakota H**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Judy Vondruska & Olga Stafford  
SDSU  
judy.vondruska@sdstate.edu

**Recruiting Girls into STEM**

Gender imbalances exist in many STEM fields. Among first-year university students, women are much less likely than men to say they intend to major in STEM. How can this be changed? This session will convey the results of efforts across the country to increase the number of females in STEM. Participants will discuss implications for efforts in SD.

**Noon-1:00 pm**

**Prairie A, B & C**

**Session: 27**

**Feb. 6, 2015**

**Grade Level:** All

**Presenters:** Ellie Cooch & Julie Olson  
SDCTM & SDSTA Presidents

**Lunch**

**Friday**

**1:30 pm**

**1:30-3:20 pm**

**Prairie A**

**Session: 28**

**Feb. 6, 2015**

**Grade Level:** 9-12

**FEATURED SPEAKERS**

Marie Copeland & Michael Lehman  
EMATHS-Embracing Mathematics  
Assessment Technology in HS  
mariecopeland@gmail.com

**Using Data Collection in Algebra**

What if we taught functions through modeling? We will explore the use of data collection devices to generate data that can be used by students to understand and write functions without the use of regression. This process engages students in their own learning while at the same time developing a depth of understanding.

**Friday**

**1:30 pm**

**1:30-2:20 pm**

**Prairie B**

**Session: 29**

**Feb. 6, 2015**

**Grade Level:** 9-12

**FEATURED SPEAKER**

**Cathy Ezrailson**

USD

cathy.ezrailson@usd.edu

**Pioneer Science (and math) on the Prairie:**

**Exploring Our Roots**

Native Americans and early settlers used creative ways to survive (and often thrive) in our unpredictable climates and terrains. This session will demonstrate some of the uses of science on the prairie and in prairie schools.

**1:30-2:20 pm**

**Dakota A**

**Session: 30**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Arnie Lund & Angelo Casaburri

Retired NASA team leader at Kadoka

& NASA Educator PD Specialist

badlander@kadokateko.com

**Journeying through the Solar System**

Building scale models of the solar system is a challenge because of the vast distances and huge size differences involved. Use a meter of cash register tape to construct a linear scale model of the solar system using Astronomical Units (AU), fractions, ratios, decimals, and percentages. Learn new definitions for a planet and dwarf planet.

**Friday**

**1:30 pm**

**1:30-3:20 pm**

**Dakota B**

**Session: 31**

**Feb. 6, 2015**

**Grade Level:** 6-8

**Presenter:** Curt Olson

Augustana College

colson@augie.edu

**Exploding Dots: An MTC Activity**

Experience an example of an activity enjoyed by middle school mathematics teachers when they attend the Sioux Falls Area Math Teachers' Circle. A brief description of FyIG (the SFAMTC) will be given prior to the joy of doing mathematics together. (Other grade levels may even enjoy the fun.)

**1:30-2:20 pm**

**Dakota C**

**Session: 32**

**Feb. 6, 2015**

**Grade Level:** K-5

**Repeat of Session 97**

**Presenter:** Kathy Grotta

LEGO education

kathy.grotta@lego.com

<http://www.legoeducation.us>

**LEGO More to Math Teachers Grade 1-2**

More to Math is a hands-on educational tool for teaching problem solving bridging to mathematical facts. It provides practice in core mathematical competencies such as reasoning, perseverance, precision, modeling and representation through individual and team problem solving experiences.

**Friday**

**1:30 pm**

**1:30-2:20 pm**  
**Dakota D**

**Session: 33**  
**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Jennifer Dolejsi & Allison Schmitz  
NSU  
Jennifer.Dolejsi@northern.edu

**Labs Are Not Just for Science**

Learn about the mathematics laboratory program at NSU and how this model can translate into cooperative group learning in your classroom. There will be several hands-on activities presented and strategies to get students talking when working in groups.

**1:30-2:20 pm**  
**Dakota E**

**Session: 34**  
**Feb. 6, 2015**

**Grade Level:** K-12      **Repeat of Session 83**

**Presenter:** Dan Van Peurse, Matt Miller,  
& Sharon Vestal  
USD & SDSU  
Dan.VanPeurse@usd.edu

**Meet the Future Teachers**

Prospective science and math teachers from all South Dakota institutions will be invited to engage in conversation with veteran science and math teachers attending the conference. The goal is to provide support and encouragement for the next generation of teachers by providing advice, encouraging stories, and successful strategies.

**Friday**

**1:30 pm**

**1:30-2:20 pm**  
**Dakota F**

**Session: 35**  
**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Steven Rokusek  
SD Public Broadcasting  
steven.rokusek@state.sd.us  
<http://sdpb.org/learn>

**Hands-on Science and Math Activities**

During this session participants will learn about science and math activities that will keep the children in their care entertained and educated. The activities will include, but are not limited to, a recycling game called Trash Dash, an ecosystem game called Chomp, Nibble, Grow, Grow, Grow, and more.

**1:30-2:20 pm**  
**Dakota G**

**Session: 36**  
**Feb. 6, 2015**

**Grade Level:** K-12

**Presenter:** Pat Bruinsma & Joy Korman  
USD  
joy.korman@usd.edu  
<http://www.usd.edu/ed>

**USD School of Education M.S. in Technology  
for Education and Training**

Considering a graduate degree? Learn about programs available through USD that will enhance your teaching practice and positively impact student learning. Experience an introduction to instructional tools to bring back to your math and/or science classroom.

**Friday**

**1:30 pm**

**1:30-2:20 am**  
**Dakota H**

**Session: 37**  
**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Chris Larson, Sharon Vestal  
& Gary Hatfield  
SDSU  
christine.larson@sdstate.edu

**Practicing Mathematical Practices: Probability & Statistics**

The Practicing the Mathematical Practices workshop will focus on demonstrating the eight Standards for Mathematical Practice while reviewing content standards in K-5 statistics and probability. We will provide K-5 teachers with hands-on activities for their classroom while aligning with the CCSS-M statistics and probability standards.

**Friday**

**2:30 pm**

**2:30-3:20 pm**  
**Prairie B**

**Session: 38**  
**Feb. 6, 2015**

**Grade Level:** K-12

**FEATURED SPEAKERS**

**John Lord & Brian Biehl**

SD Highway Patrol  
john.lord@state.sd.us

**Police Service Dogs and Drug Interdiction**

The troopers will bring their K9 partners (Aros and Zara) to discuss the science of a dog's olfactory system and their ability to detect drugs despite incredible human efforts to conceal them. Along with a live dog demonstration Troopers Lord and Beihl will also educate participants on the officer's skills of observing people under great stress, drug paraphernalia and other warning signs of drug use.

**Don't forget the business  
Meetings from 4:30-5:30.**

**Science in Dakota G**

**Math in Dakota C**

**All members of SDSTA and  
SDCTM are welcome and are  
encouraged to attend.**

**2:30-4:20 pm**  
**Prairie C**

**Session: 39**  
**Feb. 6, 2015**

**Grade Level:**

**FEATURED SPEAKER**

Roxie Albrecht  
pebbles@sio.midco.net

**Place Value: Developing Conceptual  
Understanding**

Traditional models teach positional place value in isolation. This session looks at developing a student's understanding of place value conceptually. We will explore various instructional experiences which will enhance conceptual understandings.

## Friday 2:30 pm

**2:30-3:20 pm**

**Dakota A**

**Session: 40**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Joan Brooks & Randy Brooks

Core Educational Solutions--NSTA

[jbrooks@coresolutions.com](mailto:jbrooks@coresolutions.com)

### **Using Picture Books to Guide Inquiry in K-5 Science**

Learn the theory behind using the 5E Model and blending that with using picture books to integrate science into your elementary classroom. Participate in a model lesson and gain exposure to the SDTA series: Picture Perfect Science.

**2:30-4:20 pm**

**Dakota C**

**Session: 41**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Kathleen Cotter Lawler

RightStart Mathematics

[Kathleen@RightStartMath.com](mailto:Kathleen@RightStartMath.com)

<http://www.rightstartmath.com>

### **Math Card Games to Master the Facts**

Rote memorization of math facts is daunting. Instead, let's play math card games to master the facts! Games are fun and exciting, provide practice, and most importantly, become an application for newly learned information. Join us for some FUN as we learn addition, clock, money, multiplication, and fraction games.

## Friday 2:30 pm

**2:30-4:20 pm**

**Dakota D**

**Session: 42**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Peter Vitiello and Darwin Daugaard

Sanford Research

[peter.vitiello@sanfordhealth.org](mailto:peter.vitiello@sanfordhealth.org)

<http://www.sanfordresearch.org/education>

### **Protein Biology for the Classroom**

Proteins play important metabolic, structural, and communication functions in cells. In this session, Sanford Research scientists will present a protein gel electrophoresis activity to demonstrate how proteins from biological samples are separated and visualized. Participants have access to these materials at no cost through The Sanford PROMISE.

**2:30-3:20 pm**

**Dakota E**

**Session: 43**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Matt Miller

SDSU

[Matt.Miller@sdstate.edu](mailto:Matt.Miller@sdstate.edu)

### **The Ebb and Flow of the Laboratory: Learning in the Lab**

In a study of both an undergraduate chemistry teaching laboratory and a research laboratory, certain types of interactions played key roles in learning. This session will discuss the results from the study and how these ideas can be translated to the secondary teaching laboratory.



**Friday**

**2:30 pm**

**2:30-3:20 pm**

**Dakota F**

**Session: 44**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Kevin Smith

DSU

kevin.smith@dsu.edu

<http://kevindsmith.org>

**Kid Cave: A PBL Project to Teach STEM**

Come and learn about a PBL project in which students design a "Kid Cave" using an app on the iPad. We'll walk through the steps involved in implementing the project in your class and talk specifically about the STEM content addressed in the project. If you have an iPad, you'll have a chance to play with the app.

**2:30-3:20 pm**

**Dakota G**

**Session: 45**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Sam Glantzow & Larry Browning

Selby Area School & SDSU

sam.glantzow@k12.sd.us

**Turn Your Town into a Solar Observatory**

Streets and buildings of your town can be used as a solar observatory just as certain rocks at Stonehenge and streets in Manhattan mark the cycles of the sun. This presentation will show teachers how they can turn their town into a "henge" to demonstrate annual solar motion.

**Next year's conference is  
February 4, 5, 6, 2016**

**Friday**

**2:30 pm**

**2:30-3:20 pm**

**Dakota H**

**Session: 46**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** Judy Vondruska

SDSU

judy.vondruska@sdstate.edu

<http://etfworkshop.wikispaces.com>

**Using Conductive Copper Tape to Teach Circuits**

Teaching circuits can be a challenge especially if using a setup with numerous wires. Teachers spend more time checking the wiring than helping students learn the underlying circuit principles. Participants in this session will use low-cost copper foil tape with a conductive adhesive to more easily design and analyze basic circuits.

**Friday**

**3:30 pm**

**3:30-4:20 pm**

**Prairie B**

**Session: 48**

**Feb. 6, 2015**

**Grade Level:** K-12

**Repeat of Session 66**

**Presenter:** Mary Colson

NSTA

mcolson@moorheadschoools.org

**Professional Learning Resources@NSTA, K-12**

The National Science Teachers Association is more than its journals and conferences. A plethora of online resources are available to enhance your teaching and help you as you delve into the ideas and practices of science. We will explore the NSTA Learning Center and NGSS@NSTA hub. Appropriate for K-12 teachers.

**Friday**

**3:30 pm**

**3:30-4:20 pm**

**Dakota A**

**Session: 49**

**Feb. 6, 2015**

**Grade Level:** K-5

**Presenter:** Sonya McNamara

Project Lead the Way

smcnamara@pltw.org

<http://www.pltw.org>

**PLTW-Launch-Elementary STEM**

Learn about this exciting new STEM hands-on program addressing the new Next Generation Science Standards and other national and state standards. Through hands-on learning (project and problem-based learning) for kindergarten through fifth grade, students learn important, future-changing lessons. Taking risks, making mistakes, and employing critical thinking.

**3:30-4:20 pm**

**Dakota B**

**Session: 50**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Repeat of Session 98**

**Presenter:** K-Dog & G-Trog

(withheld to protect the guilty)

cindy.kroon@K12.sd.us

**Mathematical Idol: The Reunion Tour!**

Due to increasing fan request ( $n > 0$ ), the infamous duo returns! In their words, "We've made fools of ourselves in front of our students for years. Now is the time to do it in front of our colleagues." The ability to carry a tune, sing, dance, or have rhythm is NOT a requirement for this session!

**Friday**

**3:30 pm**

**3:30-4:20 pm**

**Dakota E**

**Session: 51**

**Feb. 6, 2015**

**Grade Level:** K-5

**Repeat of Session 62**

**Presenter:** Danette Jarzab

SD Discovery Center

danettejarzab@sd-discovery.com

<http://www.sd-discovery.com>

**Getting Kids Eating Fruits and Veggies**

Harvest of the Month, an adaptable, easy to use program gets kids excited about eating fruits and vegetables and has them asking their parents for more! We have added kinesthetic activities and created new learning plans. Discover how you can impact your community's health with this free state-wide program.

**3:30-4:20 pm**

**Dakota G**

**Session: 52**

**Feb. 6, 2015**

**Grade Level:** 9-12

**Presenter:** James Stearns & Larry Browning

SD AAPT

James@SDSTA.org

<http://SDAAPT.SDSTA.org>

**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. All physics or physical science teachers are invited to this meeting.

**Friday**

**4:30 pm**

**Friday**

**7:00 pm**

**4:30-5:30 pm**

**Dakota C**

**Session: 53**

**Feb. 6, 2015**

**Grade Level:** All

**Presenter:** Ellie Cooch  
SDCTM

**SDCTM Business Meeting**

**7:00 pm---**

**Prairie A, B & C**

**Session: 56**

**Feb. 6, 2015**

**Grade Level:** All

**Facilitators:** Ellie Cooch & Julie Olson  
SDCTM & SDSTA Presidents

**Banquet**

**Speaker—Bill Zubke**

**4:30-5:30 pm**

**Dakota G**

**Session: 54**

**Feb. 6, 2015**

**Grade Level:** All

**Presenter:** Julie Olson  
SDSTA

**SDSTA Business Meeting**

**Friday**

**5:30 pm**

**Saturday**

**7:00 am**

**5:30-6:45 pm**

**Vendor area**

**Session: 55**

**Feb. 6, 2015**

**Grade Level:** All

**Social Hour**

Come and visit with other science and math teachers. Light snacks will be provided. There will be a cash bar.

**7:00-8:00 am**

**Library**

**Session: 57**

**Feb. 7, 2015**

**Grade Level:** Presidential Awardees

**Presenter:** Allen Hogie & Ramona Lundberg  
PAEMST Coordinators

**Breakfast for Awardees and Finalists**

**Saturday**

**8:00 am**

**8:00-8:30 am**

**Dakota H**

**Session: 58**

**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Judy Vondruska & Suzette Burckhard

SDSU

[judy.vondruska@sdstate.edu](mailto:judy.vondruska@sdstate.edu)

<http://etfworkshop.wikispaces.com>

**Engineering the Future Workshop**

**Sharing Session**

This is a closed session for participants of the summer 2014 Engineering the Future Workshop at SDSU. Session participants will share their experiences implementing activities from this summer as well as sharing new ideas.

**Saturday**

**8:30 am**

**8:30-10:20 am**

**Prairie B**

**Session: 60**

**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** Nicholas J. Restivo

MOEMS

[nrestivo@moems.org](mailto:nrestivo@moems.org)

**A Problem a Day Keeps the Cobwebs Away**

Generate excitement among students by modeling how to take risks in mathematical problem solving. Energize and enrich your students to dialogue with each other. Through the use of problems with multiple solution paths, learn techniques that will help you reduce the need to "cram."

**Saturday**

**8:30 am**

**8:30-10:20 am**

**Prairie A**

**Session: 59**

**Feb. 7, 2015**

**Grade Level:** 9-12

**FEATURED SPEAKERS**

**Marie Copeland & Michael Lehman**

EMATHS-Embracing Mathematics

Assessment Technology in HS

[mariecopeland@gmail.com](mailto:mariecopeland@gmail.com)

**Rethinking Quadratics**

What if we thought of quadratic functions as the product of two linear functions? How would that change our students' understanding of quadratics and factoring? This session will explore this option as an alternative to the "typical" approach to quadratics. Come see where this might lead us.

**8:30-9:20 am**

**Prairie C**

**Session: 61**

**Feb. 7, 2015**

**Grade Level:** K-5

**FEATURED SPEAKER**

**Roxie Ahlbrecht**

[pebbles@sio.midco.net](mailto:pebbles@sio.midco.net)

**Structuring: The Gateway to Mathematical Understanding**

Structuring is a basic skill which supports and enhances efficiency when solving additive and subtractive tasks. As students compose and decompose numbers, efficient strategies are developed through an understanding of how to structure which builds a student's capacity to mentally compute multi-digit problems with efficiency and accuracy.

**Saturday**

**8:30 am**

**8:30-9:20 am**  
**Dakota B**

**Session: 62**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Repeat of Session 51**

**Presenter:** Danette Jarzab

SD Discovery Center  
danettejarzab@sd-discovery.com  
<http://www.sd-discovery.com>

**Getting Kids Eating Fruits and Veggies**

Harvest of the Month, an adaptable, easy to use program gets kids excited about eating fruits and vegetables and has them asking their parents for more! We have added kinesthetic activities and created new learning plans. Discover how you can impact your community's health with this free state-wide program.

**8:30-9:20 am**  
**Dakota C**

**Session: 63**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** Jan Martin

SD DOE  
jan.martin@state.sd.us

**Cut scores, descriptors, and more**

**-Smarter Balanced Update**

So what will my students be expected to know and do in math? What are the cut scores? What resources are available to help in the classroom? The session will focus on the cut scores, achievement level descriptors, and supporting resources available for Smarter Balanced. A look at score reports will also be provided.

**Saturday**

**8:30 am**

**8:30-9:20 am**  
**Dakota E**

**Session: 64**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** Mari Biehl

SD Innovation Lab  
mbiehl@sdinnovationlab.org  
<http://sdinnovationlab.org>

**Designing Learning with Kids**

Designing their own learning--that's crazy talk! Or is it? By allowing students to work through the design process they are encouraged to build, modify, and share—a universal attribute of human thinking. Find out how to give kids the tools to think and plan using the design cycle with you as their guide on their learning adventure.

**8:30-9:20 am**  
**Dakota F**

**Session: 65**  
**Feb. 7, 2015**

**Grade Level:** K-8

**Presenter:** Steven Rokusek

SD Public Broadcasting  
steven.rokusek@state.sd.us  
<http://sdpb.org/learn>

**Engaging Science Activities: The Senses**

During this session participants will learn about science activities that will keep the children in their care entertained and educated. The session will include, but is not limited to sight, balance, and skin sensitivity activities.

**Saturday**

**8:30 am**

**8:30-9:20 am**  
**Dakota G**

**Session: 66**  
**Feb. 7, 2015**

**Grade Level:** K-12

**Repeat of Session 48**

**Presenter:** Mary Colson

NSTA

mcolson@moorheadschoools.org

**Professional Learning Resources@NSTA, K-12**

The National Science Teachers Association is more than its journals and conferences. A plethora of online resources are available to enhance your teaching and help you as you delve into the ideas and practices of science. We will explore the NSTA Learning Center and NGSS@NSTA hub. Appropriate for K-12 teachers.

**8:30-9:20 am**  
**Dakota H**

**Session: 67**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Judy Vondruska & Suzette Burckhard

SDSU

judy.vondruska@sdsstate.edu

**Using the Human Body to Study Torque  
and Engineering Design**

Many of the muscle and bone systems of the human body act as levers. In this session simple and reproduceable models of the human forearm and back will be used to collect data about forces and torques. More complex models will be used to demonstrate the engineering principles associated with these systems.

**Saturday**

**8:30 am**

**8:30-9:20 am**  
**Salon I**

**Session: 68**  
**Feb. 7, 2015**

**Grade Level:** K-12

**Presenter:** Allen Hogie & Ramona Lundberg

PAEMST Coordinators

**Tips for Winning Money**

Would you like to receive \$10,000? Every year, South Dakota is able to give two \$10,000 awards, one in science and one in math. The Presidential Award is sponsored by the White House and the National Science Foundation.

**Saturday**

**9:30 am**

**9:30-10:20 am**  
**Prairie C**

**Session: 70**  
**Feb. 6, 2015**

**Grade Level:** K-5

**FEATURED SPEAKER**

**Roxie Ahlbrecht**

pebbles@sio.midco.net

**Addition and Subtraction: Developing  
Understanding**

Students develop their understanding of addition and subtraction working with concrete materials, moving to representations before they are developmentally ready for the abstract tasks. Let's explore activities to build our instructional toolbox to include concrete materials and representations in our instruction.

**Saturday**

**9:30 am**

**9:30-11:20 am**  
**Dakota A**

**Session: 71**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Repeat of Session 11**

**Presenter:** Peggy Norris

BHSU/Sanford Underground Research Facility  
pnorris@sanfordlab.org

**SciGirls: Proven Strategies  
for Engaging Girls in STEM**

This hands-on workshop will highlight science, engineering, and technology activities designed to engage upper elementary and middle school students in STEM, developed by PBS in conjunction with the SciGirls television program. The SciGirls approach is rooted in research about how to engage girls in STEM. Participants will take home sample kits.

**9:30-10:20**  
**Dakota B**

**Session: 72**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Chris Larson, Sharon Vestal

& Gary Hatfield  
SDSU  
christine.larson@sdstate.edu

**Practicing Mathematical Practices:  
Probability & Statistics**

The Practicing the Mathematical Practices workshop will focus on demonstrating the eight Standards for Mathematical Practice while reviewing content standards in 9-12 statistics and probability. We will provide 9-12 teachers with hands-on activities for their classroom while aligning with the CCSS-M statistics and probability standards.

**Saturday**

**9:30 am**

**9:30-10:20 am**  
**Dakota C**

**Session: 73**  
**Feb. 7, 2015**

**Grade Level:** 6-8

**Presenter:** Jan Martin

SD DOE  
jan.martin@state.sd.us

**Cut scores, descriptors, and more-  
Smarter Balanced Update**

So what will my students be expected to know and do in math? What are the cut scores? What resources are available to help in the classroom? The session will focus on the cut scores, achievement level descriptors, and supporting resources available for Smarter Balanced. A look at score reports will also be provided.

**9:30-10:20 am**  
**Dakota D**

**Session: 74**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** William Kliche & Lori Stverak

Rapid City Schools  
william.kliche@k12.sd.us

**Strategies for Teaching Understanding in  
Fractions**

We will provide hands-on ideas for teaching fractional understanding.

**Next year's conference is  
February 4, 5, 6, 2016**

**Saturday**

**9:30 am**

**9:30-10:20 am**  
**Dakota G**

**Session: 76**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Darwin R. Daugaard  
Dell Rapids Public High School  
darwin.daugaard@k12.sd.us  
<http://dd045.k12.sd.us>

**Doc's Master Plan (Finding Quantum Numbers)**

Doc's Master Plan is a model of the electrons around an atom. This model will be introduced and its uses demonstrated. Find quantum numbers, electron configuration notation, and schematics and electron-dot notation can be easier to find using Doc's Master Plan. This is a chemistry topic for regular chem or advanced chem.

**9:30-10:20 am**  
**Dakota H**

**Session: 77**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Suzette Burckhard & Judy Vondruska  
SDSU  
suzette.burckhard@sdstate.edu

**The Science and Engineering of Tower Building**

Skyscrapers and telecommunications towers are both tall structures supported by a similar internal structure. In this session, participants will build towers in phases using an increasing amount of engineering content while still emphasizing science principles.

**Saturday**

**10:30 am**

**10:30-11:20 am**  
**Dakota B**

**Session: 78**  
**Feb. 7, 2015**

**Grade Level:** 6-8

**Presenter:** Tammy Jo Schlechter  
Hermosa School  
tammyjo.schlechter@k12.sd.us

**Turn Your Classroom into a Habit for Mathematicians**

Energize your classroom with best practices discovered by Tammy Jo, Tammy Jo's students and colleagues. This workshop will promote planning and activities that lead to productive dispositions in not only students but their teachers as well. This workshop is listed for middle school, but with a creative perspective, it can apply to K-12 teachers.

**10:30-11:20 am**  
**Dakota C**

**Session: 79**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Jan Martin  
SD DOE  
jan.martin@state.sd.us

**Cut scores, descriptors, and more  
--Smarter Balanced Update**

So what will my students be expected to know and do in math? What are the cut scores? What resources are available to help in the classroom? The session will focus on the cut scores, achievement level descriptors, and supporting resources available for Smarter Balanced. A look at score reports will also be provided.



**Saturday**

**10:30 am**

**10:30-11:20 am**  
**Dakota D**

**Session: 80**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Repeat of Session 21**

**Presenter:** Sheila McQuade  
O'Gorman HS  
smcquade2@sfcss.org

**Using the TI-Nspire in Geometry**

As a teacher, my favorite activities lead my students to discover geometry concepts. Participants will use Nspire and work through some of the activities I use with my students. The activities I will present could be re-written to be used with Geometer's Sketchpad, Geogebra, or the Cabri Jr. app on the TI-84. Presenter will have Nspires for participants to use.

**10:30-11:20 am**  
**Dakota E**

**Session: 81**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Jeff Schneider  
SD Innovation Lab  
jschneider@pastfoundation.org  
<http://sdinnovationlab.org>

**Teaching the Common Core Standards in Three Schools at Once!**

How I teach a Transdisciplinary Problem Based Learning class in three schools, simultaneously. How I cover all the Common Core Standards. This session will include links to relevant sites/information/resources, an extensive question and answer session, and LOTS of ideas for projects that have been proven in multiple classrooms.

**Saturday**

**10:30 am**

**10:30-11:20 am**  
**Dakota F**

**Session: 82**  
**Feb. 6, 2015**

**Grade Level:** K-8

**Presenter:** Mark Iverson & Chad Lentsch  
Watertown Middle School  
Mark.a.iverson@k12.sd.us

**Science Dojo: Add a Little Kick to Your Lessons.**

This sharing session will focus on the hard to teach concepts in your curriculum. Bring your problems, frustrations or failures to have the group slice and dice your lessons into something amazing. Bring your katana and your resources for the good of the group.

**10:30-11:20 am**  
**Dakota G**

**Session: 83**  
**Feb. 7, 2015**

**Grade Level:** K-12

**Repeat of Session 34**

**Presenter:** Dan Van Peurse, Matt Miller,  
& Sharon Vestal  
USD & SDSU  
Dan.VanPeurse@usd.edu

**Meet the Future Teachers**

Prospective science and math teachers from all South Dakota institutions will be invited to engage in conversation with veteran science and math teachers attending the conference. The goal is to provide support and encouragement for the next generation of teachers by providing advice, encouraging stories, and successful strategies.

**Saturday**

**10:30 am**

**10:30-11:20 am**  
**Dakota H**

**Session: 84**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Suzette Burckhard  
SDSU  
suzette.burckhard@sdstate.edu

**The Science and Engineering of Windmills**

Windmills and related machines have been used for centuries to produce power. Modern windmill/wind turbine designs have changed in terms of the tower configuration and the blade design. In this session, participants will design, build, and test a variety of windmills and discuss the underlying science and engineering principles.

**Saturday**

**NOON**

**Noon-1:00 pm**  
**Prairie A, B & C**

**Session: 85**  
**Feb. 6, 2015**

**Grade Level:** All

**Presenters:** Julie Olson & Ellie Cooch  
SDSTA & SDCTM Presidents

**Lunch**

**Next year's conference is**  
**February 4, 5, 6, 2016**

**Saturday**

**1:00 pm**

**1:00-2:50 pm**  
**Prairie A**

**Session: 86**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**FEATURED SPEAKERS**

**Marie Copeland & Michael Lehman**

EMATHS-Embracing Mathematics  
Assessment Technology in HS  
mariecopeland@gmail.com

**Using Origami to Introduce Geometry**

Engage your students on day one. Use origami paper to build three dimensional figures to visualize and explore special right triangles, area and volume. Connections between the size of the paper and the size of the figure we create will be discovered, which explores the ratios of similar figures.

**The Sanford PROMISE**

Program for the Midwest Initiative in Science Exploration



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**Saturday**

**1:00 pm**

**1:00-1:50 pm**  
**Prairie B**

**Session: 87**  
**Feb. 7, 2015**

**Grade Level:** 6-8

**Presenter:** Peggy Norris & David Demuth  
BHSU/Sanford Underground Research Facility  
pnorris@sanfordlab.org

**Connect Your Students with Scientists:**

**The K-12 STEM Series**

Connect your students to scientists and modern scientific research, whether it's looking deep into space or deep into molecules. In its second year, Dakota's K-12 STEM Initiative is a collaborative effort among partners across K-12, higher education and research centers across the Dakotas, using technology to connect students with scientists.

**Saturday**

**1:00 pm**

**1:00-1:50 pm**  
**Dakota A**

**Session: 89**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** Sonya McNamara & David Hosick  
Project Lead the Way  
smcnamara@pltw.org  
<http://www.pltw.org>

**PLTW: STEM Journey**

Project Lead the Way is the leading STEM education program in the nation. Now five PLTW programs, a K-12 STEM journey, give students the opportunity to develop world class skills and knowledge preparing them for post-secondary education and the global economy. Learn about the new Launch, Gateway and high school programs.

**1:00-1:50 pm**  
**Prairie C**

**Session: 88**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**FEATURED SPEAKERS**

**Cathy Ezrailson**

USD  
cathy.ezrailson@usd.edu

**Why a Lab Safety Protocol Could Save Your Life**

Do you teach science in a classroom or lab? Do you have a method for buying, storing, organizing and using science equipment? Have you ever experienced (or know of a fellow teacher who has experienced) a mishap while teaching or demonstrating in a science class? Perhaps a science safety protocol could help.

**1:00-1:50 pm**  
**Dakota B**

**Session: 90**  
**Feb. 7, 2015**

**Grade Level:** K-5

Repeat of Session 16

**Presenter:** Danette Jarzab  
SD Discovery Center  
danettejarzab@sd-discovery.com  
<http://www.sd-discovery.com>

**Math-Ready to Go!**

Our GEMS (Great Explorations in Math & Science) kits are filled with ready-to-go math activities that support state standards. This session will include activities from these math kits: Build It Festival (K-6), Frog Math (K-3), Math on the Menu (3-5), and In All Probability (3-6).

**Saturday**

**1:00 pm**

**1:00-1:50 pm**  
**Dakota D**

**Session: 90.5**  
**Feb. 7, 2015**

**Grade Level:** 9-12

**Presenter:** Chris Larson  
SDSU  
christine.larson@sdstate.edu

**Using Algebra Tiles to Teach HS Algebra**

Algebra Tiles can be used to explore a variety of algebraic concepts. Come see how they can be used to teach basic concepts like combining like terms, using the distributive property, and solving linear equations, to more complex concepts like factoring, solving linear inequalities, and solving systems of linear equations.

**1:00-1:50 pm**  
**Dakota E**

**Session: 91**  
**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** Julie Olson  
Mitchell Senior High School  
julie.olson@k12.sd.us

**Simple Research Ideas for Elementary Students**

Engage elementary students in research that doesn't require a lot of money, materials, or space.

**Next year's conference is**  
**February 4, 5, 6, 2016**

**Have you thought about presenting?**

**Saturday**

**1:00 pm**

**1:00-1:50 pm**  
**Dakota F**

**Session: 92**  
**Feb. 7, 2015**

**Grade Level:** 6-8

**Presenter:** Janet Briggs  
BHSU  
janet.briggs@bhsu.edu

**Low-Maintenance School Gardens**

Learn about low-maintenance gardens that you and your students can plant and manage, including supporting Monarch butterflies and two of South Dakota's endangered butterflies, planting a xeriscape garden with native plants, and more. Hear how Master Gardener volunteers can assist throughout the process.

**1:00-1:50 pm**  
**Dakota G**

**Session: 93**  
**Feb. 7, 2015**

**Grade Level:** 9-12      Repeat of Session 10

**Presenter:** Anne Lewis  
SD Discovery Center  
anne.lewis@sd-discovery.com  
<http://www.sd-discovery.com>

**GLOBE in South Dakota**

GLOBE is a world wide, hands-on, school based science education program. The SD Discovery Center and Outdoor Campus West are partnering to support this exciting opportunity to investigate and monitor environmental systems here in SD. Get a sneak peek at our summer professional development as well as a few GLOBE goodies.

**Saturday**

**2:00 pm**

**2:00-2:50 pm**

**Dakota A**

**Session: 95**

**Feb. 7, 2015**

**Grade Level:** K-5

**Presenter:** Sonya McNamara & David Hosick

Project Lead the Way  
smcnamara@pltw.org  
<http://www.pltw.org>

**PLTW-Launch-Encouraging Critical Thinking**

Through hands-on learning (project and problem-based learning) for kindergarten through fifth grade, students learn important, future-changing lessons. Taking risks, making mistakes, and employing critical thinking are all part of exciting problem solving activities. Teachers and students learn and discover together, becoming far more engaged.

**2:00-2:50 pm**

**Dakota B**

**Session: 96**

**Feb. 7, 2015**

**Grade Level:** K-5

Repeat of Session 24

**Presenter:** Danette Jarzab

SD Discovery Center  
danettejarzab@sd-discovery.com  
<http://www.sd-discovery.com>

**Science-Ready to Go**

Our GEMS (Great Explorations in Math & Science) kits are filled with ready-to-go science activities that support state standards. This session will include activities from these science kits: Bubble Festival (K-6), Liquid Explorations (1-3), Electric Circuits (3-6), and Space Science (3-5).

**Saturday**

**2:00 pm**

**2:00-2:50 pm**

**Dakota C**

**Session: 97**

**Feb. 7, 2015**

**Grade Level:** K-5

Repeat of Session 32

**Presenter:** Kathy Grotta

LEGO education  
kathy.grotta@lego.com  
<http://www.legoeducation.us>

**LEGO More to Math Teachers Grade 1-2**

More to Math is a hands-on educational tool for teaching problem solving bridging to mathematical facts. It provides practice in core mathematical competencies such as reasoning, perseverance, precision, modeling and representation through individual and team problem solving experiences.

**2:00-2:50 pm**

**Dakota D**

**Session: 98**

**Feb. 7, 2015**

**Grade Level:** 9-12

Repeat of Session 50

**Presenter:** K-Dog & G-Trog

(withheld to protect the guilty)  
cindy.kroon@K12.sd.us

**Mathematical Idol: The Reunion Tour!**

Due to increasing fan request ( $n > 0$ ), the infamous duo returns! In their words, "We've made fools of ourselves in front of our students for years. Now is the time to do it in front of our colleagues." The ability to carry a tune, sing, dance, or have rhythm is NOT a requirement for this session!

## Saturday

2:00 pm

2:00-2:50 pm  
Dakota E

Session: 99  
Feb. 7, 2015

Grade Level: 9-12

**Presenter:** Julie Olson  
Mitchell Senior High School  
julie.olson@k12.sd.us

### Mitosis in Onion Roots

Fix, stain, and view onion roots then learn how to utilize this procedure to engage your students in research related to cell division, cancer, and mitosis in general. There will be music, on-line resources, and student/teacher worksheets to utilize.

2:00-2:50 pm  
Dakota F

Session: 100  
Feb. 7, 2015

Grade Level: K-12

**Presenter:** Mark Iverson  
Watertown Middle School  
mark.a.iverson@k12.sd.us

### Weather Ballooning: Taking Your Teaching Out of this World

If you have ever wanted to start a weather balloon project with your class this session is 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

2:00 pm

2:00-2:50 p m  
Dakota H

Session: 101  
Feb. 7, 2015

Grade Level: 9-12

**Presenter:** Matt Miller & Larry Browning  
SDSU  
Matt.Miller@sdstate.edu

### Demonstrations to Spark Their Interest

Come and see if we get it right this year. After melting the carpet and melting chocolate we've learned how to whip our students into shape and teach them about acids and bases.

## Saturday

3:00 pm

3:00-3:50 pm  
Dakota C

Session: 102  
Feb. 7, 2015

Grade Level:  
**Presenter:** Ellie Cooch  
Math Wrap UP

3:00-3:50 pm  
Dakota G

Session: 103  
Feb. 7, 2015

Grade Level:  
**Presenter:** Julie Olson  
Science Wrap Up

## Saturday

4:00 pm

4:00-????  
Boardroom

Session: 104  
Feb. 7, 2015

**Presenter:** Jean Gomer  
Joint Board Meeting (for Officers)

Representatives will be exhibiting on Friday from 8:00 AM until 5:00 PM. These include:

<b>Activities for Learning</b>	<b>Kathleen Cotter Lawler</b>
<b>Andamio Games</b>	<b>Adam Gordon</b>
<b>Bitwix Software Systems</b>	<b>Lindi Doherty</b>
<b>Black Hills Raptor Center</b>	<b>John Halvorson &amp; Maggie Engler</b>
<b>Carolina Curriculum</b>	<b>Michelle Reed (Corporate) &amp; Bob Friedel</b>
<b>Core Educational Solutions</b>	<b>Joan Brooks &amp; Randy Brooks</b>
<b>CPM Educational Program</b>	<b>Bob Peterson</b>
<b>Houghton Mifflin Harcourt</b>	<b>Matt Misialek</b>
<b>LEGO Education</b>	<b>Kathy Grotta</b>
<b>McGraw Hill</b>	<b>Carol Heisel</b>
<b>MOEMS-Math. Olympiads for Elem &amp; MS</b>	<b>Nick Restivo</b>
<b>NascoAmy K</b>	<b>Amy Klotz (Corporate) &amp; Kevin Hart</b>
<b>NSTA</b>	<b>Mary Colson</b>
<b>Pearson</b>	<b>Mike Limmer</b>
<b>Sanford PROMISE</b>	<b>Liz McMillan, Jill Weimer &amp; Tamara Ledeboer</b>
<b>Sanford Underground Research Facility</b>	<b>Peggy Norris</b>
<b>SD Discovery Center (Pierre)</b>	<b>Anne Lewis &amp; Marie Steckelberg</b>
<b>SD PBS</b>	<b>Steven Rokusek</b>
<b>SDSU Plant Science Dept.</b>	<b>Carl Fellbaum</b>
<b>Technology and Innovation in Education</b>	<b>Mary Lou McGirr</b>
<b>USD</b>	<b>Joy Korman</b>

\*Name Tag Lanyards are compliments of SD Game Fish and Parks

South Dakota Science Teachers Association Business Meeting  
will be held in Dakota G  
at 4:30 pm on Friday, February 6, 2015

SD Council of Teachers of Mathematics Business Meeting  
will be held in Dakota C  
at 4:30 pm on Friday, February 6, 2015

#### **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 4, 5, & 6, 2016**

## SDSTA

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**2015 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.

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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.

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Name

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School District Superintendent  
Ed.S, Ed.D. Director of Special Education  
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**The 2015 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 THE FOR HELPING US WITH PROJECTORS!**

Next year's conference will be **February 4, 5, & 6, 2016.**

**The 2015 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.

Are you planning to attend the NSTA Conference in Chicago in March? Consider sharing an activity with other teachers at Meet Me in the Middle 2:00-4:00 pm on Friday, March 13<sup>th</sup>. Register for the Share-a-Thon at: [tinyurl.com/MMITM2015](http://tinyurl.com/MMITM2015).

