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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td><strong>Thursday, February 5, 2015</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>7:00 PM - 9:00 PM</td>
<td>Evening Sessions</td>
<td>(See Program)</td>
<td></td>
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<tr>
<td><strong>Friday, February 6, 2015</strong></td>
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</tr>
<tr>
<td>7:00 AM - 4:20 PM</td>
<td>Registration Open</td>
<td>Pre-Function Area</td>
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<tr>
<td>8:00 AM - 5:00 PM</td>
<td>Exhibits Open</td>
<td>Pre-Function Area</td>
<td></td>
</tr>
<tr>
<td>8:30 AM - 11:20 AM</td>
<td>Morning Sessions</td>
<td>(See Program)</td>
<td></td>
</tr>
<tr>
<td>11:45 AM - 1:10 PM</td>
<td>Friday Luncheon</td>
<td>Prairie A, B, C</td>
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<tr>
<td></td>
<td>(cost included in the registration fee)</td>
<td></td>
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</tr>
<tr>
<td>1:30 PM - 4:20 PM</td>
<td>Afternoon Sessions</td>
<td>(See Program)</td>
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</tr>
<tr>
<td>4:30 PM</td>
<td>SDCTM Business Meeting</td>
<td>Dakota C</td>
<td></td>
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<tr>
<td></td>
<td>SDSTA Business Meeting</td>
<td>Dakota G</td>
<td></td>
</tr>
<tr>
<td>5:30-6:45 PM</td>
<td>Social Hour</td>
<td>CASH BAR</td>
<td>Pre-Function Area</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>Friday Evening Banquet</td>
<td>Prairie A, B, C</td>
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<td>(Cost is $25)</td>
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<tr>
<td><strong>Saturday, February 7, 2015</strong></td>
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<tr>
<td>7:00 AM - 11:20 AM</td>
<td>Registration Open</td>
<td>Pre-Function Area</td>
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<tr>
<td>7:00 AM - 8:00 AM</td>
<td>Breakfast Meeting</td>
<td>Salon</td>
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<td>Presidential Awardees (Past &amp; Present)</td>
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<tr>
<td>8:30 AM - 11:20 AM</td>
<td>Morning Sessions</td>
<td>(See Program)</td>
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<tr>
<td>12:00 Noon - 1:00 PM</td>
<td>Saturday Luncheon</td>
<td>Prairie A, B, C</td>
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<td></td>
<td>(cost included in the registration fee)</td>
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<tr>
<td>1:00 PM - 3:50 PM</td>
<td>Afternoon Sessions</td>
<td>(See Program)</td>
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<tr>
<td>4:00 PM</td>
<td>Joint SDCTM &amp; SDSTA</td>
<td>Boardroom</td>
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<td></td>
<td>Executive Board Meeting</td>
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</table>
## SDSTA/SDCTM Joint Conference 2015 Planner

### Thursday, Feb. 5, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Session #</th>
<th>Location</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>7:00 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
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</tbody>
</table>

### Friday, Feb. 6, 2015

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session #</th>
<th>Location</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td>10:30 AM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
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</tbody>
</table>

**Noon**

**Friday Noon Luncheon in Crossroads Hotel – Prairie A, B, C**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session #</th>
<th>Location</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1:30 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td>2:30 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td>3:30 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
</tbody>
</table>
| 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) |

### Saturday, Feb. 7, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Session #</th>
<th>Location</th>
<th>Title</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
</tbody>
</table>

**Noon**

**Saturday Noon Luncheon in Crossroads Hotel – Prairie A, B, C**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session #</th>
<th>Location</th>
<th>Title</th>
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<tbody>
<tr>
<td>1:00 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
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<tr>
<td>2:00 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>First Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td></td>
<td>Second Choice</td>
<td>Location</td>
<td>Title</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>SDCTM &amp; SDSTA JOINT BOARD MEETING IN THE BOARDROOM</td>
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</tbody>
</table>

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

7:00-9:00 pm  Session: 1  Feb. 5, 2015
Dakota C

Grade Level: All

Presenter: Ellie Cooch
SDCTM
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  Session: 2  Feb. 5, 2015
Dakota G

Grade Level: All

Presenter: Liz McMillan
SDSTA
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.

Friday  8:30 am

8:30-10:20 am  Session: 3  Feb. 6, 2015
Prairie A

Grade Level: 9-12

FEATURED SPEAKERS
Marie Copeland & Michael Lehman
EMATHS-Embracing Mathematics Assessment Technology in High School
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Featured Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>4</td>
<td>Prairie B</td>
<td>K-12</td>
<td>Mike Welter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feb. 6, 2015</td>
<td></td>
<td><a href="mailto:Mike.Welter@state.sd.us">Mike.Welter@state.sd.us</a></td>
</tr>
<tr>
<td><strong>The Biology of Drug Recognition</strong></td>
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<tr>
<td>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.</td>
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-10:20 am</td>
<td>5</td>
<td>Prairie C</td>
<td>K-5</td>
<td>Roxie Ahlbrecht</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feb. 6, 2015</td>
<td></td>
<td><a href="mailto:pebbles@sio.midco.net">pebbles@sio.midco.net</a></td>
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<tr>
<td><strong>Multiplicative Thinking</strong></td>
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<tr>
<td>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.</td>
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<table>
<thead>
<tr>
<th>Time</th>
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<th>Location</th>
<th>Grade Level</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>8:30-10:20 am</td>
<td>6</td>
<td>Dakota A</td>
<td>K-12</td>
<td>Mark Iverson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feb. 6, 2015</td>
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<td><a href="mailto:Mark.a.iverson@k12.sd.us">Mark.a.iverson@k12.sd.us</a></td>
</tr>
<tr>
<td><strong>Demonstrations to Shock and Amaze</strong></td>
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<tr>
<td>If you have been looking for ways to &quot;spice-up&quot; 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.</td>
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<thead>
<tr>
<th>Time</th>
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<th>Location</th>
<th>Grade Level</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-10:20 am</td>
<td>7</td>
<td>Dakota B</td>
<td>6-12</td>
<td>Sharon Rendon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feb. 6, 2015</td>
<td></td>
<td><a href="mailto:rendon@cpm.org">rendon@cpm.org</a></td>
</tr>
<tr>
<td><strong>Empowering Students to Make Mathematical Connections</strong></td>
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<tr>
<td>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.</td>
<td></td>
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</tbody>
</table>
Friday

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
Feb. 6, 2015

Grade Level: K-5

Presenter: Sue Brokmeier, Lynda Venhuizen & Larry Browning
SDSU
Sue.Brokmeier@sdstate.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

8:30-9:20 am
Dakota E
Feb. 6, 2015

Repeat of Session 93

Grade Level: 9-12

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.

adam.gordon@andamiogames.com

iNeuron will present Friday Session #25
Friday 8:30 am

8:30-10:20 am  
Dakota F  
Feb. 6, 2015

Session: 11  
Repeat of Session 71

Grade Level: K-5

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.

Friday 9:30 am

9:30-10:20 am  
Prairie B  
Feb. 6, 2015

Session: 13

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.

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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Grade Level</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30-9:30 am</strong></td>
<td>1</td>
<td>Dakota A</td>
<td>6-8</td>
<td>Dr. Erin Nyren-Erickson</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Dakota B</td>
<td>9-12</td>
<td>Kelly Kukull &amp; Barb Stoflett</td>
</tr>
<tr>
<td><strong>9:30-10:20 am</strong></td>
<td>3</td>
<td>Dakota C</td>
<td>9-12</td>
<td>Sam Johnson</td>
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<tr>
<td></td>
<td>4</td>
<td>Dakota D</td>
<td>K-5</td>
<td>Danette Jarzab</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Dakota E</td>
<td>9-12</td>
<td>David Doherty</td>
</tr>
</tbody>
</table>

**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.

**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.

**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.
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 allows students in a physics class to study an example of an "edge tone" device that produces discrete sound frequencies.

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.
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.

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.

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).

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!
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.

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.
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.

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 FYI G (the SFAMTC) will be given prior to the joy of doing mathematics together. (Other grade levels may even enjoy the fun.)

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

1:30-2:20 pm  Session: 33
Dakota D  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.

Friday 1:30 pm

1:30-2:20 pm  Session: 34
Dakota E  Feb. 6, 2015

Grade Level: K-12  Repeat of Session 83

Presenter: Dan Van Peursem, Matt Miller, & Sharon Vestal
USD & SDSU
Dan.VanPeursem@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  Session: 35
Dakota F  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.

Friday 1:30 pm

1:30-2:20 pm  Session: 36
Dakota G  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.
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.

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 with also educate participants on the officer’s skills of observing people under great stress, drug paraphernalia and other warning signs of drug use.

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.
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.

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.

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.

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.
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.

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

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

Session: 49
Feb. 6, 2015

Dakota A

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

Session: 50
Feb. 6, 2015

Dakota B

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

Session: 51
Feb. 6, 2015

Dakota E

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

Session: 52
Feb. 6, 2015

Dakota G

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

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<th>Presenter</th>
<th>Grade Level</th>
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<tbody>
<tr>
<td>4:30-5:30 pm</td>
<td>53</td>
<td>Dakota C</td>
<td>Ellie Cooch</td>
<td>All</td>
<td>SDCTM Business Meeting</td>
</tr>
<tr>
<td>4:30-5:30 pm</td>
<td>54</td>
<td>Dakota G</td>
<td>Julie Olson</td>
<td>All</td>
<td>SDSTA Business Meeting</td>
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### Friday 7:00 pm

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<th>Presenter</th>
<th>Grade Level</th>
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<tbody>
<tr>
<td>7:00 pm-</td>
<td>56</td>
<td>Prairie A, B &amp; C</td>
<td>Ellie Cooch &amp; Julie Olson</td>
<td>All</td>
<td>SDCTM &amp; SDSTA Presidents</td>
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#### Banquet
Speaker—Bill Zubke

### Saturday 7:00 am

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<th>Grade Level</th>
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<tbody>
<tr>
<td>7:00-8:00 am</td>
<td>57</td>
<td>Library</td>
<td>Allen Hogie &amp; Ramona Lundberg</td>
<td>Presidential Awardees</td>
<td>PAEMST Coordinators</td>
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#### Breakfast for Awardees and Finalists
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 8:00 am
8:00-8:30 am Session: 58
Dakota H
Feb. 7, 2015
Grade Level: 9-12
Presenter: Judy Vondruska & Suzette Burckhard
SDSU
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 Session: 59
Prairie A
Feb. 7, 2015
Grade Level: 9-12
Presenter: Nicholas J. Restivo
MOEMS
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 Session: 60
Prairie B
Feb. 7, 2015
Grade Level: K-5
Presenter: Marie Copeland & Michael Lehman
EMATHS-Embracing Mathematics Assessment Technology in HS
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.

Saturday 8:30 am
8:30-9:20 am Session: 61
Prairie C
Feb. 7, 2015
Grade Level: K-5
FEATURED SPEAKER
Roxie Ahlbrecht
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.
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.

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.

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.

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.
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.

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.

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.

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.
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.

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.

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.

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.

Next year’s conference is February 4, 5, 6, 2016
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.

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.

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  

10:30-11:20 am  
Dakota D  
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.

Saturday  

10:30-11:20 am  
Dakota F  
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  
Feb. 7, 2015  
Repeat of Session 34  

Presenter: Dan Van Peursem, Matt Miller, & Sharon Vestal  
USD & SDSU  
Dan.VanPeursem@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  Session: 84
Dakota H
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**

**1:00 pm**

1:00-2:50 pm  Session: 86
Prairie A
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.

**Saturday**

**NOON**

12:00-1:00 pm  Session: 85
Prairie A, B & C
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

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**Sanford PROMISE**

Program for the Midwest Initiative in Science Exploration

Inspiring the next generation of scientists

Opportunities for
- Educator Enhancement
- Student Discovery
- Student and Teacher Research Experience at Sanford Research in Sioux Falls or in your classroom.

Visit us at sanfordresearch.org  
Email sanfordoutreach@sanfordhealth.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.

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.

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.
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<td>Feb. 7, 2015</td>
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<td>Presenter: Chris Larson</td>
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<td>SDSU</td>
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<td><a href="mailto:christine.larson@sdstate.edu">christine.larson@sdstate.edu</a></td>
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**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.

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<th>Session</th>
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<tr>
<td>91</td>
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<td>Presenter: Julie Olson</td>
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<tr>
<td>Mitchell Senior High School</td>
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<tr>
<td><a href="mailto:julieolson@k12.sd.us">julieolson@k12.sd.us</a></td>
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**Simple Research Ideas for Elementary Students**
Engage elementary students in research that doesn't require a lot of money, materials, or space.

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<tr>
<td>92</td>
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<td>Presenter: Janet Briggs</td>
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<td>BHSU</td>
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**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.

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<tr>
<td>93</td>
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<td>Repeat of Session 10</td>
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<td>Presenter: Anne Lewis</td>
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<td>SD Discovery Center</td>
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**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.

Next year’s conference is February 4, 5, 6, 2016
Have you thought about presenting?
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.

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).

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.

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!
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.

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.

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.

Math Wrap UP

Science Wrap Up

Joint Board Meeting (for Officers)
Representatives will be exhibiting on Friday from 8:00 AM until 5:00 PM. These include:

- Activities for Learning
- Andamio Games
- Bitwix Software Systems
- Black Hills Raptor Center
- Carolina Curriculum
- Core Educational Solutions
- CPM Educational Program
- Houghton Mifflin Harcourt
- LEGO Education
- McGraw Hill
- MOEMS-Math. Olympiads for Elem & MS
- Nasco/Amy K
- NSTA
- Pearson
- Sanford PROMISE
- Sanford Underground Research Facility
- SD Discovery Center (Pierre)
- SD PBS
- SDSU Plant Science Dept.
- Technology and Innovation in Education
- USD

Kathleen Cotter Lawler
Adam Gordon
Lindi Doherty
John Halvorson & Maggie Engler
Michelle Reed (Corporate) & Bob Friedel
Joan Brooks & Randy Brooks
Bob Peterson
Matt Misialek
Kathy Grotta
Carol Heisel
Nick Restivo
Amy Klotz (Corporate) & Kevin Hart
Mary Colson
Mike Limmer
Liz McMillan, Jill Weimer & Tamara Ledeboer
Peggy Norris
Anne Lewis & Marie Steckelberg
Steven Rokusek
Carl Fellbaum
Mary Lou McGirr
Joy Korman

*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**

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

**President-Elect:**
Elizabeth McMillan
Sanford Center
2301 East 60th Street North
Sioux Falls, SD 57104
Elizabeth.McMillan@SanfordHealth.org

**Past-President:**
Brenda Murphey
12821 Robinson Rd
Black Hawk, SD 57718
Brenda.Murphey@k12.sd.us

**Treasurer:**
James Stearns
15 N. Fifth St.
Groton, SD 57445
James.Stearns@k12.sd.us

**Secretary:**
Deirdre Peck
409 South Kline St.
Aberdeen, SD 57401
Deirdre.Peck@k12.sd.us

**Elementary Liaison:**
Shawnda Carmichael
P. O. Box 9
Bison, SD 57620
Shawnda.Carmichael@k12.sd.us

**Middle School Liaison**
Janet Wagner
709 Maple St.
Tyndall, SD 57066
Janet.Wagner@k12.sd.us

**Science Liaison:**
Janet Briggs
1200 University Unit 9005
Spearfish, SD 57799
Janet.Briggs@bhsu.edu

**College Liaison-Science:**
Larry Browning
405 20th Ave.
Brookings, SD 57006
Larry.Browning@sdsstu.edu

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

**SDCTM**

**President:**
Ellie Cooch
219 Union Street
Spearfish, SD 57783
cooch@spearfish.k12.sd.us

**President-Elect:**
Cindy Kroon
46223 262 ST
Hartford, SD 57033
Cindy.Kroon@k12.sd.us

**Past-President:**
Jay Berglund
204 S Exene St.
Gettysburg, SD 57442
Jay.Berglund@k12.sd.us

**Vice-President:**
Steve Caron
907 South 16th Street
Aberdeen, SD 57401
Steve.Caron@k12.sd.us

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

**Interim Treasurer:**
Jay Berglund
204 S Exene St.
Gettysburg, SD 57442
Jay.Berglund@k12.sd.us

**NCTM Representative:**
Allen Hogie
416 Country Club Ave.
Brandon, SD 57005
Allen.Hogie@k12.sd.us

**Elementary Liaison:**
Lori Sverak
4909 Homestead #202
Rapid City, SD 57703
Lori.Sverak@k12.sd.us

**MS Liaison:**
Brianna Wirth
210 S. Montana
Mitchell, SD 57301
Brianna.Wirth@k12.sd.us

**Secondary Liaison:**
Lindsey Brewer
37386 208th St.
Wessington, SD 57381
Lindsey.Brewer@k12.sd.us

**CONFERENCE**

**Conference Coordinator:**
Jean Gomer
Box 96
White, SD 57276
jeanann@itctel.com

**Vendor Coordinator**
David Ireland
14167 SD Hwy 40
Hermosa, SD 57744
David.Ireland@k12.sd.us

**Hospitality Coordinators:**
Jennifer Fowler
2 Indiana St.
Rapid City, SD 57702
Jennifer.Fowler@k12.sd.us
&
Brenda Murphey
21 St. Joe
Rapid City, SD 57701
Brenda.Murphey@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

**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 VanPeursem
Dept of Mathematical Science, USD
414 E. Clark St.
Vermillion, SD 57067
dpeursem@usd.edu
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:

<table>
<thead>
<tr>
<th>Content Area:</th>
<th>Math</th>
<th>Science</th>
<th>Both</th>
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</thead>
<tbody>
<tr>
<td>Grade Band:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Elementary</td>
<td></td>
<td>Middle School</td>
<td>High School</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Address</td>
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<tr>
<th>City, State, Zip Code</th>
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</table>
Continue your education as a Coyote!
University of South Dakota School of Education

**Curriculum and Instruction**
M.A. Elementary Education, Technology, Secondary Education, Special Education
Ed.S., Ed.D. Curriculum and Instruction

**Counseling and Psychology in Education**
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M.A., Ed.S, Ph.D. Counseling
Ed.S., Ph.D. School Psychology

**Educational Administration**
Ed.S, Ed.D. Director of Special Education
M.A., Ed.D. Adult and High Education

**Kinesiology and Sport Science**
M.A. 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
The 2015 Conference Committee would like to offer a Special Thanks to …

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

**Coke** for helping provide refreshments throughout the conference.

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

**All exhibitors** for their enthusiastic participation.

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

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

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

**A SPECIAL THANKS GOES TO THE FOR HELPING US WITH PROJECTORS!**

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

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**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.

<table>
<thead>
<tr>
<th></th>
<th>SDSTA or SDCTM members</th>
<th>Non-members</th>
<th>Students</th>
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<tbody>
<tr>
<td>ONE-day</td>
<td>$50</td>
<td>$100</td>
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<td>includes the Noon Luncheon for that day</td>
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<tr>
<td>TWO-day</td>
<td>$75</td>
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<td>$25</td>
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<tr>
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<td>includes the Noon Luncheon for both days</td>
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</table>

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.

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**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 13th. Register for the Share-a-Thon at: tinyurl.com/MMITM2015.**