Program for 2010 Joint Conference

Thursday  7 pm
7:00-9:00 pm  Session: 1  Feb. 4, 2010
Dakota C  2 hours
Grade Level:  All

Facilitator:  Cindy Kroon
President of SDCTM

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. 4, 2010
Dakota G  2 hours
Grade Level:  All

Facilitator:  Molly TenBroek
President-elect of SDSTA

Science 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!

Friday  8:30 am
8:30-9:20 am  Session: 3  Feb. 5, 2010
Prairie A

Grade Level:  9-12+

Featured Speaker
Andrew Weaver
Stillwater Area High School

Prairie Restoration and Prairie Plant Propagation in the Classroom
The focus of this session will be a description of our 15 acre native prairie which is part of a 55 acre outdoor school lab and how my high school students grow prairie plants in the classroom.
**Friday 8:30 am**

8:30-9:20 am  Session:  4  
Prairie B  
Feb. 5, 2010  
Grade Level:  K-5  

**Featured Speaker**  
Penny S. Roberts  
Greenville Elementary School  

**Using Reading Strategies To Make My Students Stronger In Math. Are You Kidding Me?**  
No, I'm not kidding! Learn to use strategies you often think of as reading specific to help students deep process important math concepts. These strategies will not only help students better retain new math learning, but will also help them develop deeper understanding of mathematics concepts.

**Friday 8:30 am**

8:30-9:20 am  Session:  5  
Prairie C  
Feb. 5, 2010  
Grade Level:  9-12+  

**Featured Speaker**  
Chris R. Olsen  
Cedar Rapids Community Schools (Ret.)  

**Dribbling into Bayes' Theorem (Alg. II)**  
Bayes' Theorem, in all its algebraic glory, is a very model of incomprehensibility. It could use a makeover, and in this session we will use the context of basketball (among others) to change this ugly duckling into a swan.

**Friday 8:30 am**

8:30-9:20 am  Session:  6  
Dakota A  
Feb. 5, 2010  
Grade Level:  K-12+  

**Speaker:**  
Penny S. Roberts  
Greenville Elementary School  

**Interactive White Boards**  
No matter what your level of experience with an interactive white board, come see what makes the Promethean the number one choice. In this session, come see the NEW Inspire 1.3. You will see the Self Paced Testing using the ActiveExpressions. See why they make students excited at test time and don't want the test to end. Caution: Be prepared to get calls at home from irate parents whose child didn't get to use the Promethean Board that day.

**Friday 8:30 am**

8:30-9:20 am  Session:  7  
Dakota B  
Feb. 5, 2010  
Grade Level:  6-12+  

**Speakers:**  
Marie L. Steckelberg  
& Halley Lee  
SD Health Career Connections Network  
SD Healthcare Workforce Center  

**HOTT Lessons! Secondary**  
Did you know that SD will need 1000s of ADDITIONAL healthcare workers in the next few years? Now is the time to educate our youth of these exciting and challenging career possibilities. Learn about a HOTT source with lesson plans integrating math, science, and health careers that easily incorporate into your curriculum.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Grade Level</th>
<th>Speaker/Presenter</th>
<th>Location/Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>Session: 8</td>
<td>9-12+</td>
<td>Michael P. Grams</td>
<td>SDSU</td>
</tr>
<tr>
<td></td>
<td>Feb. 5, 2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cramster: Friend or Foe?</td>
<td>Online resources are becoming increasingly popular for students. However, it is not immediately clear if they are always effective in helping students learn. This talk discusses a popular website called Cramster and my experiences with it.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session: 9</th>
<th>K-12+</th>
<th>Nicole Keegan &amp; Brenda Murphey</th>
<th>Dakota Middle School-Rapid City</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Feb. 5, 2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matters of the Heart</td>
<td>Get some samples of fun and unique ways to build relationships with your students. Warning: Chocolate will be present at this presentation.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session: 10</th>
<th>3-5</th>
<th>Kenneth Graupmann</th>
<th>SD Discovery Center</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Feb. 5, 2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeat of #111</td>
<td>ATLSS Project (Advancing Teacher Leaders in Space Science)</td>
<td>Help teachers engage &amp; educate students in space science utilizing innovative instructional strategies, effective curricular resources and engaging content. There will be a door prize of curriculum materials.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session: 11</th>
<th>6-8</th>
<th>Chris L. Larson</th>
<th>SDSU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Feb. 5, 2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade Level: 6-8</td>
<td>Using Manipulatives in the Middle School Math Classroom</td>
<td>This workshop is designed to help middle school teachers learn how to use manipulatives to help students gain a deeper conceptual understanding of math concepts. Teachers will learn how to use a variety of concrete models to teach middle school concepts. This model was designed by CAMSE for SD Counts.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Have you checked out “Share the Classroom Treasures”? STOP IN THE BOARD ROOM AND SEE WHAT IS THERE.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Description</th>
</tr>
</thead>
</table>
| 8:30-9:20 am | Session: 12 | **Grant Writing for Your Classroom Needs**  
Do you need equipment but your "principal funding source" is too stingy? During this session, discover sources of funding and begin writing proposals for equipment in your lab/classroom. Informal follow up on Saturday. |
| 8:30-10:20 am | Session: 13 | **The Tiles: A Participatory Parable on the Nature of Science**  
If we teach science using an inquiry approach, some of our students do not understand that science is more than just a collection of "right answers" to memorize. The Tiles activity allows any science teacher to help students clarify what science is about. First you will do the Tiles activity as students and then we will talk about how it can be used in a classroom. You might even learn something about the nature of science yourself. |
| 8:30-9:20 am | Session: 13.3 | **Teaching Evolution and the Nature of Science**  
Teaching evolution is often not happening in biology classrooms. Teachers may not feel comfortable or knowledgable enough. This presentation will cover resources and strategies as well as standards curriculum alignment. |
| 8:30-9:20 am | Session: 13.5 | **Sierpinski’s Triangle Recreated**  
Senior math becomes art class during this project. We will create a 3-D Sierpinski’s Triangle during this session. I will provide you with handouts to take this back to your classroom. This project can also be done in a geometry class. |
Friday 9:30 am

9:30-10:20 am  Session:  14
Prairie A  Feb. 5, 2010
Repeat of #44
Grade Level:  9-12+

Featured Speaker
Keith E. Van Tassel
NASA-Johnson Space Center

How I Use Math and Science in My Job at NASA
As a Pyrotechnic Engineer, I will describe how I use the math and science I learned in junior and senior high on a daily basis.

Friday 9:30 am

9:30-10:20 am  Session:  15
Prairie B  Feb. 5, 2010
Grade Level:  K-2

Featured Speaker
Penny S. Roberts
Greenville Elementary School

"BEEF UP" Your Early Numeracy Teaching
Building early numeracy skills is just as important as building early reading skills. Unless students have a strong early numeracy foundation, they will struggle in the area of number sense in later grades. Learn about a number of early numeracy activities that will make your students stronger mathematicians.

Friday 9:30 am

9:30-10:20 am  Session:  16
Prairie C  Feb. 5, 2010
Repeat of #79
Grade Level:  9-12+

Featured Speaker
Chris R. Olsen
Cedar Rapids Community Schools (Ret.)

Five Real Life Quadratic Function Problems (Alg I/II)
Tired of the standard ballistics and Golden Gate problems? Looking for rich contexts for your quadratic function lesson? In this session we will present 5 quadratic problems that you can take into class on Monday.

Friday 9:30 am

9:30-10:20 am  Session:  17
Dakota A  Feb. 5, 2010
Grade Level:  9-12+

Speaker:  Jami Stone
BHSU

Developing Secondary Students’ Capacity to Reason and Make Sense of Mathematics
Reasoning and sense making should be the focus of the secondary mathematics curriculum regardless of the topic being studied. Participants will look at lessons from NCTM's newest documents on reasoning and sense making to see how these principles can be incorporated into their classroom.
Friday

9:30-10:20 am  Session:  18
Dakota B   Feb. 5, 2010
Grade Level:  K-5

Speaker:  Roxane M. Dyk
Mid-Central Educational Coop

How Much Is A Half?
Literature, real-world application, hands-on activities and the "social learning" model will be used to help you learn what your students know about one-half.

9:30-10:20 am  Session:  19
Dakota C   Feb. 5, 2010
Grade Level:  6-8

Speakers:  Mary A. Frederick & Karen Gordon
Mickelson Middle School-Brookings

We're Going on a Field Trip!
We have a plan for a field trip. Our trip is interdisciplinary, inclusive, addresses science standards, and makes it possible to take over one hundred students on a nature study of prairie potholes and grasslands. You will learn how to use Vernier labquests, too.

Friday

9:30-10:20 am  Session:  20
Dakota D   Feb. 5, 2010
Grade Level:  K-12+

Speaker:  Nicole Keegan
Dakota Middle School-Rapid City

Moving to Inquiry
Learn ways to take "cookie cutter" labs and make them more investigative. Come with a lab that you already do--we will work to raise the student thinking!

9:30-10:20 am  Session:  21
Dakota E   Feb. 5, 2010
Grade Level:  9-12+

Speaker:  Sheila McQuade
O'Gorman High School

Using the "Write" Tool in Geometry
In a culture of instant messaging and texting, it is even more important to get students to write in all disciplines. I will share with you some of the activities/lessons I've used to incorporate writing without sacrificing the math content.

Do you have a banquet ticket?
The speaker is Keith Van Tassel from NASA-Johnson Space Center
Friday  
9:30 am

9:30-10:20 am  
Session:  22
Feb. 5, 2010
Dakota F
Grade Level:  6-8
Speakers:  Cheryl Puhl & Lori Keleher, 2009
Presidential Award State Finalist
Huron Middle School

The Periodic Table & More
Simple and inexpensive activities to understand elements, compounds, and mixtures.

9:30-10:20 am  
Session:  23
Feb. 5, 2010
Dakota G
Repeat of #85
Grade Level:  6-12+
Sponsors:  Matthew Miller, Larry Browning & Chris Larson
SDSU

Meet the Science and Math Teachers of Tomorrow
Share your expertise with future teachers to provide them with information useful in their first years of teaching. Students involved include Diedra Reuman, Laura Jones, Melanie Zinter, Emily Koehler, Samantha Loutsch, Alisha Burcham, Jodi Hall, and Ashley Schreurs.

Next Year’s Conference is
February 3, 4, and 5, 2011

Friday  
9:30 am

9:30-10:20 am  
Session:  24
Feb. 5, 2010
Symposium
Repeat of #109
Grade Level:  6-12+
Speaker:  Anne Lewis
SD Discovery Center

Biomonitoring for Climate Change
Biomonitoring for climate change is a professional development opportunity funded by EPA Region 5 Environmental Education Program. This June, twelve teachers will be trained and equipped (and we do mean equipped) to implement biomonitoring and climate change education in their classrooms. Come learn how you can participate.

9:30-11:20 am  
Session:  24.5
Feb. 5, 2010
Salon
2 hours
Grade Level:  6-12+
Speakers:  Rose Emanuel & Roberta Traxinger
Lead HS & Douglas HS

Modeling Physics for Understanding
The Modeling Materials for Physics have earned a distinction as some of the best materials for teaching physics. In a Modeling classroom, students are highly involved in the scientific process and they uncover physics ideas themselves. With Modeling, students come to understand physics much more deeply than with typical methods. And it’s fun! Come learn about the Modeling Method and a possible opportunity to attend a two-week Modeling Workshop next summer.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker</th>
<th>Presentation Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30-11:20 am</td>
<td>25</td>
<td>Dakota A</td>
<td>6-12+</td>
<td>Kristi G. Lutgen</td>
<td><em>Inspire with the Board (Promethean)</em>&lt;br&gt;ActivInspire is the new Promethean software. I will show you some of the highlights of the software as well as introduce you to the ActivExpressions. The Expressions interact with your computer to engage your students in your classroom.</td>
</tr>
<tr>
<td>10:30-11:20 am</td>
<td>26</td>
<td>Dakota B</td>
<td>6-8</td>
<td>Sharon S. Vestal</td>
<td><em>Tangrams-More Than Just a Puzzle</em>&lt;br&gt;We will explore how tangrams can be used to teach fractions, areas of polygons, and the Pythagorean Theorem.</td>
</tr>
<tr>
<td>10:30-11:20 am</td>
<td>27</td>
<td>Dakota C</td>
<td>6-8</td>
<td>Kenneth Graupmann</td>
<td><em>ATLSS Project (Advancing Teacher Leaders in Space Science)</em>&lt;br&gt;Help teachers engage &amp; educate students in space science utilizing innovative instructional strategies, effective curricular resources and engaging content. There will be a door prize of curriculum material.</td>
</tr>
<tr>
<td>10:30-11:20 am</td>
<td>28</td>
<td>Dakota D</td>
<td>3-8</td>
<td>Steven M. Rokusek</td>
<td><em>Weather Watchers</em>&lt;br&gt;Meteorologists use measurements to collect and analyze weather-related data to predict the weather. The activities in this session will provide ways to explore these same math &amp; science concepts while having fun. Even chocolate will be used in this session to see how the evaporation of water can be used to keep something cool.</td>
</tr>
</tbody>
</table>
Friday 10:30 am

10:30-11:20 am  
Dakota E  
Feb. 5, 2010  
Repeat of #99  
Grade Level:  3-5  
Speaker:  Micheline A. Hickenbotham  
BHSU  
Helping Children Learn Math:  
Connecting Home and School  
Fostering a positive attitude about math at home can help children learn math at school.  This session will focus on tips, online resources, and real-life connection activities.

10:30-11:20 am  
Dakota F  
Feb. 5, 2010  
Grade Level:  9-12+  
Speaker:  Julie A. Olson  
Mitchell Senior High  
Cell Biology  

10:30-11:20 am  
Dakota G  
Feb. 5, 2010  
Repeat of #66  
Grade Level:  K-12+  
Speaker:  Chad R. Tussing  
The Outdoor Campus-West  
Bighorns 101  
Come see what the head-banging is all about.  Learn about South Dakota’s magnificent wild sheep.  This session will cover bighorn biology and will provide some tidbits for the classroom.

Friday 10:30 am

10:30-11:20 am  
Dakota H  
Feb. 5, 2010  
Repeat of #97  
Grade Level:  3-8  
Speaker:  Brant G. Miller  
U of M  
Making Sense of STEM through Snow Snakes  
Participants will learn about one way to mobilize the emerging multi-disciplinary approach known as STEM (Science, Technology, Engineering, and Mathematics).  The context for this mobilization will be snow snakes which is a traditional American Indian game that was played by various tribes throughout North America.

10:30-11:20 am  
Symposium  
Feb. 5, 2010  
Grade Level:  6-12+  
Speaker:  Julie Dahl  
BHSU-CAMSE  
Progress Update:  Sanford Lab at Homestake  
As the former Homestake Gold Mine continues its transition into a Deep Underground Science and Engineering Laboratory (DUSEL), planning is underway to create a world class education center that highlights the cutting-edge science taking place in our state.  Come learn what we’ve been up to lately.
12:00 Noon   Session:  34
Prairie A, B, C
Feb. 5, 2010
Grade Level:  All
Facilitators:  Ramona Lundberg,
SDSTA President
& Cindy Kroon
SDCTM President

LUNCH

Presidential Awardees
Science—David Ireland, South Middle
School Rapid City
Mathematics—Becky Kitts, St. Joseph
Catholic School, Pierre

Announcements
Door Prizes

Friday  1:30 pm
1:30-2:20 pm  Session:  35
Dakota A   Feb. 5, 2010
Grade Level:  K-3
Speakers:   Brenda Danielson
& Lorry Morfeld
Scotland Elementary School

Not the Same Old, Same Old
Using a Promethean Board can give
new life to old skills and concepts.
Probability, multiplication, geometry,
measurement, and lines of symmetry
can be enhanced with this useful
technology.

Friday  1:30 pm
1:30-2:20 pm  Session:  36
Dakota B   Feb. 5, 2010
Grade Level:  K-5
Speakers:  Marie L. Steckelberg
& Halley Lee
SD Health Career Connections Network
SD Healthcare Workforce Center
HOTT Lessons!  Elementary
Did you know that SD will need
THOUSANDS of ADDITIONAL
healthcare workers in the next few
years? Now is the time to educate our
youth of these exciting and challenging
career possibilities.  Learn about a
HOTT source with lesson plans
integrating math, science, and health
careers that easily incorporate into your
curriculum.

Friday  1:30 pm
1:30-2:20 pm  Session:  37
Dakota C   Feb. 5, 2010
Repeat of #88
Grade Level:  K-12+
Speaker:  Janet L. Briggs
BHSU

Science Misconceptions:  Cavemen
and Dinosaurs
"Cavemen and Dinosaurs Co-existed."
"You can see the moon only at night."
This session will point out other
misconceptions held by K-12 students
and provide research-based strategies
for helping students move beyond them.
Photostory
Microsoft Photostory is a free application that allows the creation of show and tell presentations from digital photos. It runs on Windows XP or Vista. Come find out how easy it is to use.

SD Counts!
What is SD Counts really all about? What are those teachers REALLY doing? How does it affect me? Come see, hear and experience what teachers have been doing, and continue to do, to implement best practices and increase student understanding in their classrooms. Hand-outs of strategies, practices, and activities available.

"Formative Assessments"--How to Test without Testing
Heather and Mark will share successes (and failures) of using non-traditional tests to check for understanding in their classes. A wide range of student abilities and styles has prompted us to explore alternative assessments. Come learn and share with us.

TARC-Actually, It Is Rocket Science
Come learn more about the Team America Rocketry Challenge with the O'Gorman Rocket Team. The team will share what it takes to build a competition rocket and their experiences from competing at the National Finals.
Friday 1:30 pm

1:30-3:20 pm  
Dakota H  
Feb. 5, 2010

2 hours  
Grade Level: 9-12+

Speakers:  Matthew Miller  
& Larry Browning  
SDSU

Demos and Doorprizes At Your Own Risk  
Make, Take, and Win. Physics and chemistry demonstrations you can take home; and a few odds and ends we had to get out of our office.

Friday 1:30 pm

1:30-2:20 pm  
Symposium  
Feb. 5, 2010

Grade Level: 6-8

Speaker:  Tom Mead, South Dakota Teacher of the Year  
Spearfish MS

Highs and Lows--Floods and Flows  
Teams of students become familiar with the topography of Mars, its geologic features, and patterns of features using a color-coded topographic map; and other selected activities.

Don’t forget the business meetings?  
These are your organizations—help them address your needs and reflect your ideas. Get involved.

Friday 2:30 pm

2:30-3:20 am  
Prairie A  
Feb. 5, 2010

Repeat of #14  
Grade Level: 9-12+

Featured Speaker  
Keith E. Van Tassel  
NASA-Johnson Space Center

How I Use Math and Science in My Job at NASA  
As a Pyrotechnic Engineer, I will describe how I use the math and science I learned in junior and senior high on a daily basis.
**HELP WANTED: Crime Solvers Needed**
There are criminals on the loose, and YOU are needed to help put them behind bars! Use role playing, music, a real-life simulation, and more to make learning and teaching probability both fun and interesting. This could be the culminating event you have been looking for to enhance your probability unit.

**A Baker's Dozen Experimental Design Problems (AP Stats)**
In AP Statistics, experimental design problems for student practice are few and far between. In this session, we will present 13 lucky problems designed to illustrate blocking.

**Integrate Health and Math Using Data**
Help your students collect, display and analyze data. Ideas include tallies, picto, bar, line and circle graphs, box & whisker and stem & leaf plots, as well as estimation. Use a variety of tools to develop students’ understanding of mean, median and mode. We hope you like your veggies!
Breeding Drosophila to Teach Homeobox Genetics and the History and Importance of Model Organisms in Research
Discussion of the importance of model organisms, history of some of the great Fly People and their research, and homeobox function in embryological development. View Drosophila through dissecting scopes and see demonstrations of how to establish stock cultures in your classrooms. (This was presented at the National Association of Biology Teachers Convention in November.)

The Space Race of the 1930's
November 11th celebrates the 75th Anniversary of the Epoch-making flight of Explorer II into the stratosphere in 1935. Come and learn how South Dakota featured in this historic event.
Friday  2:30 pm

2:30-3:20 pm  Session:  53  
Symposium  Feb. 5, 2010  
Repeat of #87  
Grade Level:  K-12+

Speaker  
Paul Keidel  
Representative of NSTA

Professional Development and the  
NSTA Learning Center  
The NSTA Learning Center can provide  
you with professional development in  
your area of expertise at a minimal cost  
or "free". The Learning Center can  
provide you with a transcript of  
completed hours to present to your  
administration.

Friday  3:30 pm

3:30-4:20 pm  Session:  54  
Prairie A  Feb. 5, 2010  
Grade Level:  K-12+

Featured Speaker  
Andrew J. Weaver  
Stillwater Area High School

Peregrine Falcons—a Conservation Success Story  
Teachers looking for an example of a wildlife success story can learn about how this has been accomplished. Live falcons will be part of the presentation.

2:30-3:20 pm  Session:  53.5  
Salon  Feb. 5, 2010  
Grade Level:  9-12+

Speaker:  Terry Aslesen  
Mitchell Senior High

Relevance through Bioethics  
Students have to discuss real issues that are changing their world. Included will be processes that can be used along with over 100 topics for students to investigate/discuss and form opinions.

3:30-4:20 pm  Session:  55  
Prairie C  Feb. 5, 2010  
Grade Level:  9-12+

Featured Speaker  
Chris R. Olsen  
Cedar Rapids Community Schools (Ret.)

Getting the Most Out of the Dakota STEP  
It can be difficult to interpret and utilize information provided with results from state testing. In this session, we will discuss how to get the most out of these reports. Our focus will be on the Dakota STEP tests, but the strategies for interpretation will be generally applicable.
Friday 3:30 pm
3:30-4:20 pm  Session:  56  
Dakota A   Feb. 5, 2010
Grade Level:  6-12+
Speaker:  Jean Gomer
Deubrook Area Schools

Why Would an Old Dog Learn New Tricks?
What can having a Promethean Board do to change the way a veteran teacher teaches without any painful learning curve?

Friday 3:30 pm
3:30-4:20 pm  Session:  57  
Dakota D   Feb. 5, 2010
Repeat of #103
Grade Level:  3-12+
Speakers:  Nicole Keegan, Jannette Moehlman & Katie Anderson
Dakota Middle School-Rapid City

Moving Lab Notebooks to the Next Level
What can I do to get students to REALLY process the lab? Kick your lab notebooks up a notch. Learn ways to adapt what you already do to enhance learning.

Friday 3:30 pm
3:30-4:20 pm  Session:  59  
Dakota G   Feb. 5, 2010
Grade Level:  9-12+
Facilitators:  SD-AAPT Officers

AAPT Meeting
All interested Physics or Physical Science teachers are invited to attend. This is the annual meeting of the South Dakota chapter of the American Association of Physics Teachers.

Friday 3:30 pm
3:30-4:20 pm  Session:  60  
Dakota H   Feb. 5, 2010
Grade Level:  K-5
Speaker:  Lisa R. Weier
Camelot Intermediate School, Brookings

Biomimicry and Invention
Discover the connection between biomimicry and invention. Learn how to tie these topics into the teaching of critical thinking skills in the classroom. Receive resources for teaching invention to elementary students and get a brief overview of the programming available through Invent Now Kids.

The vendors have NOT left the building!
Friday

3:30 pm

Session: 61
Feb. 5, 2010

Dakota C

Grade Level: All

Presider: Cindy Kroon
SDCTM President

SDCTM Business Meeting

Friday

4:30 pm

Session: 62
Feb. 5, 2010

Dakota G

Grade Level: All

Presider: Ramona Lundberg
SDSTA President

SDSTA Business Meeting

Friday

3:30-4:20 pm

Symposium

Grade Level: 3-5

Speaker: Jan Martin
SD DOE

NAEP 2009: How Do Our 4th Graders Measure UP?
NAEP 2009 Math data will be explored with an emphasis on released items and correlation of results with reported technology use.

3:30-4:20 pm

Session: 61.5
Feb. 5, 2010

Repeat of #107
Grade Level: 6-12+

Speakers: Joseph Rand & Michael Arquin
Kidwind Project

Wind Energy for the Classroom
Teachers will be introduced to the science behind wind power and exposed to engaging, hands-on wind energy lessons and activities for their classrooms.

Friday Evening

6:30-9:00 pm

Session: 64
Feb. 5, 2010

Prairie A, B, C

Grade Level: All

BANQUET

Speaker: Keith Van Tassel
NASA-Johnson Space Center
Saturday Morning

7:00-8:00 am  Session: 65  
Salon  Feb. 6, 2010

Grade Level: All Presidential Awardees

Facilitators: Diana McCann & Ramona Lundberg

Presidential Breakfast

All past and present math and science awardees including this year's finalists are invited to join us for breakfast.

---

Saturday  8:30 am

8:30-9:20 am  Session: 66  
Prairie B  Feb. 6, 2010

Grade Level: 3-5

Featured Speaker
Penny S. Roberts
Greenville Elementary School

Probability With PIZAZ!
Probability can be fun to teach and learn! Use real-life scenarios, games and other probability activities to help your students love learning about probability concepts. They will be excited about coming to your math class.

---

Saturday 8:30 am

8:30-9:20 am  Session: 67  
Prairie C  Feb. 6, 2010

Grade Level: 9-12+

Featured Speaker
Chris R. Olsen
Cedar Rapids Community Schools (Ret.)

Five Real Life Exponential/Logarithmic Function Problems (Alg II)
Tired of the standard sound level and Richter scale problems? Looking for rich contexts for your exponential and log functions lesson? In this session we will present 5 exp/log problems that you can take into class on Monday.

---

Saturday  8:30 am

8:30-9:20 am  Session: 68  
Prairie A  Feb. 6, 2010

Repeat of #31
Grade Level: K-12+

Speaker: Chad R. Tussing
The Outdoor Campus-West

Bighorns 101
Come see what the head-banging is all about. Learn about South Dakota's magnificent wild sheep. This session will cover bighorn biology and will provide some tidbits for the classroom.

---

Have you applied for the Presidential Award? Nominations are open for 2010.
Saturday 8:30 am
8:30-9:20 am  Session: 69
Dakota A  Feb. 6, 2010
Grade Level: K-8
Speaker: Micheline A. Hickenbotham
BHSU

The Math Workshop Approach
Use a balanced approach to teach mathematics providing various ways to meet the needs of all learners. The how, why, notation, and examples will be provided.

8:30-9:20 am  Session: 70
Dakota B  Feb. 6, 2010
Grade Level: 3-8
Speakers: Katie L. Anderson & Jannette R. Moehlman
Dakota Middle School-Rapid City

The Place of Literacy within Scientific Inquiry
The focus of this presentation is using literacy strategies and skills to give lower level readers a boost in the science classroom.

Saturday 8:30 am
8:30-9:20 am  Session: 71
Dakota C  Feb. 6, 2010
Repeat of #27
Grade Level: 6-8
Speaker: Kenneth Graupmann
SD Discovery Center

ATLSS Project (Advancing Teacher Leaders in Space Science)
Help teachers engage & educate students in space science utilizing innovative instructional strategies, effective curricular resources and engaging content. There will be a door prize of curriculum material.

8:30-9:20 am  Session: 72
Dakota D  Feb. 6, 2010
Grade Level: 9-12+
Speaker: John D. Hollingsworth
University Center, Sioux Falls

Chuck-A-Luck and the Big Six
Mathematics behind some carnival games from my youth.

Next Year’s Conference is
February 3, 4, and 5, 2011
<table>
<thead>
<tr>
<th>Saturday</th>
<th>8:30 am</th>
<th>Saturday</th>
<th>8:30 am</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>Session: 73</td>
<td>8:30-9:20 am</td>
<td>Session: 75</td>
</tr>
<tr>
<td>Dakota E</td>
<td>Feb. 6, 2010</td>
<td>Dakota G</td>
<td>Feb. 6, 2010</td>
</tr>
<tr>
<td>Grade Level: 3-12+</td>
<td></td>
<td>Grade Level: 6-12+</td>
<td></td>
</tr>
<tr>
<td>Speaker: Steven M. Rokusek</td>
<td>SD Public Broadcasting</td>
<td>Speaker: Chris Larson</td>
<td>SDSU</td>
</tr>
<tr>
<td>Old School Demonstrations</td>
<td></td>
<td>Modeling 3-Dimensional shapes</td>
<td></td>
</tr>
<tr>
<td>During this session participants will review classic science demonstrations, including but not limited to a &quot;Scientific American Frontiers&quot; experiment to see if your corpus callosum is working. Come and enjoy the magic of science.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This workshop will help teachers to construct and use two-dimensional representations of three-dimensional objects to visualize and solve surface area and volume problems.</td>
<td></td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>Session: 74</td>
<td>8:30-9:20 am</td>
<td>Session: 76</td>
</tr>
<tr>
<td>Dakota F</td>
<td>Feb. 6, 2010</td>
<td>Salon</td>
<td>Feb. 6, 2010</td>
</tr>
<tr>
<td>Grade Level: 3-5</td>
<td></td>
<td>Grade Level: All</td>
<td></td>
</tr>
<tr>
<td>Speaker: Brenda L. Robertson</td>
<td>Whippourwill</td>
<td>Speakers: Diana McCann</td>
<td>&amp; Ramona Lundberg</td>
</tr>
<tr>
<td>Teaching Science Using SD History as a Theme</td>
<td></td>
<td>State Presidential Award Coordinators</td>
<td></td>
</tr>
<tr>
<td>This workshop will use SD history as a theme in integrating science and social studies into the elementary curriculum. Several hands-on activities will be explored and handouts will be provided. All activities are aligned to SD content standards.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tips for Winning Money</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Saturday

**9:30 am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Featured Speaker</th>
</tr>
</thead>
</table>
| 9:30-10:20 am | 77      | Prairie A  | 9-12+       | Repeat of #13.3
Karen A. Kraemer
Willmar Senior High School (Ret.)
& Holly Knudson
Marshall High School

**Teaching Evolution and the Nature of Science**
Teaching evolution is often not happening in biology classrooms. Teachers may not feel comfortable or knowledgable enough. This presentation will cover resources and strategies as well as standards curriculum alignment.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Featured Speaker</th>
</tr>
</thead>
</table>
| 9:30-10:20 am | 78      | Prairie B  | 3-5         | Penny S. Roberts
Greenville Elementary School

**HAVE A BALL (TECHNICALLY A SPHERE) IN GEOMETRY**
Learn a number of strategies for teaching geometry to meet the needs of students with different learning styles. Sing songs (a good singing voice is not required), use math literature, and integrate hands-on activities to make geometry interesting and meaningful for your students.

### Saturday

**9:30 am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Featured Speaker</th>
</tr>
</thead>
</table>
| 9:30-10:20 am | 79      | Prairie C  | 9-12+       | Chris R. Olsen
Cedar Rapids Community Schools (Ret.)

**Five Real Life Quadratic Function Problems (Alg I/II)**
Tired of the standard ballistics and Golden Gate problems? Looking for rich contexts for your quadratic function lesson? In this session we will present 5 quadratic problems that you can take into class on Monday.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 9:30-11:20 am | 80      | Dakota A   | 3-5         | Penny Smith
SD DOE

**Integrate Health and Math Using Data**
Help your students collect, display and analyze data. Ideas include tallies, picto, bar, line and circle graphs, box & whisker and stem & leaf plots, as well as estimation. Use a variety of tools to develop students' understanding of mean, median and mode. We hope you like your veggies!
Saturday 9:30 am
9:30-10:20 am  Session:  81
Dakota B   Feb. 6, 2010

Repeat of #50
Grade Level:  K-12+

Speaker:  Mike Barondeau
Edmunds Central School

The Space Race of the 1930’s
November 11th celebrates the 75th Anniversary of the Epoch-making flight of Explorer II into the stratosphere in 1935. Come and learn how South Dakota featured in this historic event.

Next Year’s Conference is
February 3, 4, and 5, 2011

Saturday 9:30 am
9:30-10:20 am  Session:  82
Dakota C   Feb. 6, 2010

Grade Level:  6-12+

Speaker:  Jane Healy
SD State Library

Online Resources for Math & Science
See how the South Dakota State Library subscription electronic resources support content area standards, enhance research, and promote 21st Century learning. Bring your laptop and follow along.

Saturday 9:30 am
9:30-10:20 am  Session:  83
Dakota D   Feb. 6, 2010

Grade Level:  3-8

Speaker(s):  Lisa R. Weier
Camelot Intermediate School, Brookings

Honeywell Space Academy for Educators
Learn about this 5-day program sponsored by Honeywell. Teachers from around the world come together to participate in astronaut-style training, simulations, and activities designed to promote life-long learning in a classroom setting. See images and video from this amazing experience, and learn about the Honeywell Scholarship Program.

Saturday 9:30 am
9:30-10:20 am  Session:  84
Dakota E   Feb. 6, 2010

Grade Level:  6-12+

Speaker:  David Ireland, 2008 Presidential Awardee in K-6 Science
South Middle School-Rapid City

Using Inquiry to Set the Stage for Instruction
Looking for a way to engage your students? Grab their interest with inquiry based activities. Instruction on a topic after an initial inquiry can be a useful model. Participants of this session will get to try quick, fun inquiries in Earth, Life, and Physical Science.
Saturday 9:30 am

9:30-10:20 am Session: 85
Dakota F Feb. 6, 2010
Repeat of #23
Grade Level: 6-12+

Sponsors: Matthew Miller & Larry Browning & Chris Larson
SDSU

Meet the Science and Math Teachers of Tomorrow
Share your expertise with future teachers to provide them with information useful in their first years of teaching. Students involved include Diedra Reuman, Laura Jones, Melanie Zinter, Emily Koehler, Samantha Loutsch, Alisha Burcham, Jodi Hall, and Ashley Schreurs.

9:30-10:20 am Session: 86
Dakota G Feb. 6, 2010
Grade Level: 9-12+

Speaker(s): Judy A. Vondruska & Larry M. Browning
SDSU

What's Up? Tools for Observing the Night Sky
This session will focus on helping you learn how to use a planisphere and a skygazer's almanac to find constellations, planets, and many other objects in the night sky. Everyone gets a free planisphere and almanac.

Saturday 9:30 am

9:30-10:20 pm Session: 87
Symposium Feb. 6, 2010
Repeat of #53
Grade Level: K-12+

Speaker
Paul Keidel
Representative of NSTA

Professional Development and the NSTA Learning Center
The NSTA Learning Center can provide you with professional development in your area of expertise at a minimal cost or "free". The Learning Center can provide you with a transcript of completed hours to present to your administration.

9:30-11:20 am Session: 87.5
Salon Feb. 6, 2010
2 hours
Grade Level: 9-12+

Speaker: Dave Martin
Cheyenne Eagle Butte HS

Crafting Math
Various math concepts can be taken from concrete to abstract through the use of appropriate craft projects. 3-D ornaments, string art, and unique candles will be available for all participants.
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday</td>
<td>10:30 am</td>
<td>88</td>
<td>K-12+</td>
<td>Janet L. Briggs</td>
<td>Science Misconceptions: Cavemen and Dinosaurs</td>
</tr>
<tr>
<td></td>
<td>10:30-11:20 am</td>
<td></td>
<td></td>
<td></td>
<td>Repeat of #37</td>
</tr>
<tr>
<td></td>
<td>Dakota B</td>
<td>Feb. 6, 2010</td>
<td></td>
<td>BHSU</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;Cavemen and Dinosaurs Co-existed.&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;You can see the moon only at night.&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This session will point out other misconceptions held by K-12 students and provide research-based strategies for helping students move beyond them.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:00-11:20 pm</td>
<td>89</td>
<td>K-5</td>
<td>Julie Olson &amp; Marica Shannon</td>
<td>Crayola Dream-Makers Science</td>
</tr>
<tr>
<td></td>
<td>Dakota C</td>
<td>Feb. 6, 2010</td>
<td></td>
<td>Mitchell Senior/Middle School</td>
<td>Lessons based on National Visual Arts and National Science and Education Standards—hands-on. (Presentation materials provided by Crayola)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:30-11:20 am</td>
<td></td>
<td>3-8</td>
<td>Steven M. Rokusek</td>
<td>Weather Watchers</td>
</tr>
<tr>
<td></td>
<td>Dakota E</td>
<td>Feb. 6, 2010</td>
<td></td>
<td>SD Public Broadcasting</td>
<td>Meteorologists use measurements to collect and analyze weather-related data to predict the weather. The activities in this session will provide ways to explore these same math &amp; science concepts while having fun. Even chocolate will be used in this session to see how the evaporation of water can be used to keep something cool.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Repeat of #28</td>
</tr>
</tbody>
</table>
Exploring the Area Model
This session will offer a journey through a middle and secondary curriculum illustrating how AREA is the foundation model for whole number multiplication, fractions, and polynomials. Participants will use algebra tiles and the generic rectangle as a basis for multiplying, factoring and then dividing polynomials to investigate problems that frequently offer a challenge to students.

Exploring the Sun
This session will explore sunspots, the sunspot cycle, solar flares and many other activities associated with the sun. Student activities will be provided. If you have a laptop, please bring one.

Can Your Students Think Like Scientists?
With project based Inquiry Science your students will mirror what scientists do. They will design and run experiments and share ideas with each other as they address the big challenges and big questions in each unit.
Saturday  1:00 pm

1:00-1:50 pm  Session:  96
Prairie A   Feb. 6, 2010
Grade Level:  9-12+

Speaker:  Deborah Snook, 2009
Presidential Award State Finalist
Philip HS

Families of Parabolas
Participants will use graphing
calculators in conjunction with hands-on
activities that analyze the effects that
result from changing each of the
parameters of a, h, and k in the vertex
form of a quadratic equation
(Participants are asked to bring a
graphing calculator if one is available.)

1:00-1:50 pm  Session:  97
Prairie B   Feb. 6, 2010
Repeat of #32
Grade Level:  3-8

Speaker:  Brant G. Miller
U of M

Making Sense of STEM through Snow
Snakes
Participants will learn about one way to
mobilize the emerging multi-disciplinary
approach known as STEM (Science,
Technology, Engineering, and
Mathematics). The context for this
mobilization will be snow snakes which is a
traditional American Indian game that was
played by various tribes throughout North
America.

Saturday  1:00 pm

1:00-1:50 pm  Session:  98
Prairie C   Feb. 6, 2010
Grade Level:  K-2

Speaker(s):  Brenda Danielson
Scotland Elementary
& Kristin Morse
Madison School District

Science Mini Lessons
Are you feeling frustrated that time for
science is too brief? We have some
ideas of how to create mini-lessons and
centers for exploration. Let students
explore a concept and then use mini-
lessons to wrap up the topic.

1:00-1:50 pm  Session:  99
Dakota A   Feb. 6, 2010
Repeat of 29
Grade Level:  3-5

Speaker:  Micheline A. Hickenbotham
BHSU

Helping Children Learn Math:
Connecting Home and School
Fostering a positive attitude about math at
home can help children learn math at
school. This session will focus on tips,
online resources, and real-life connection
activities
**Saturday 1:00 pm**

**1:00-1:50 pm  Session:  100**

Dakota B    Feb. 6, 2010

Repeat of #41

Grade Level:  6-12+

Speaker(s):  Jane Schnell & O'Gorman Rocket Team

O'Gorman HS

**TARC-Actually, It Is Rocket Science**

Come learn more about the Team America Rocketry Challenge with the O'Gorman Rocket Team. The team will share what it takes to build a competition rocket and their experiences from competing at the National Finals.

**1:00-2:50 pm  Session:  101**

Dakota C    Feb. 6, 2010

2 hours—Repeat of #49

Grade Level:  9-12+

Speaker:  Robin Cochran-Dirksen

Lead-Deadwood HS

**Breeding Drosophila to Teach Homeobox Genetics and the History and Importance of Model Organisms in Research**

Discussion of the importance of model organisms, history of some of the great Fly People and their research, and homeobox function in embryological development. View Drosophila through dissecting scopes and see demonstrations of how to establish stock cultures in your classrooms. (This was presented at the National Association of Biology Teachers Convention in November.)

**Saturday 1:00 pm**

**1:00-2:50 pm  Session:  102**

Dakota D    Feb. 6, 2010

2 hours—Repeat of #51

Grade Level:  3-8

Speaker(s):  Laurie Root & Maggie Engler

SD GF & P/Wildlife Experiences

**Bird Brains, Unite!**

Explore the Flying WILD materials, an extension of Project WILD. Cut a gizzard, migrate & compete in the Olympics. Meet live birds from SD and learn how they can visit your classroom.

**1:00-1:50 pm  Session:  103**

Dakota E    Feb. 6, 2010

Repeat of #57

Grade Level:  3-12+

Speaker(s):  Nicole Keegan, Jannette Moehlman & Katie Anderson

Dakota Middle School-Rapid City

**Moving Lab Notebooks to the Next Level**

What can I do to get students to REALLY process the lab? Kick your lab notebooks up a notch. Learn ways to adapt what you already do to enhance learning.
<table>
<thead>
<tr>
<th>Saturday</th>
<th>1:00 pm</th>
</tr>
</thead>
</table>
| 1:00-1:50 pm | Session: 104  
Dakota F  
Feb. 6, 2010  
Grade Level: K-12  
Speaker: Laura Snow  
DOE/ATS |
| Importing MS Word Tests into Achievement Series  
This session will demonstrate, using a math test originally made in Word, how to import tests into Achievement Series using the Exam View Pro Suite. |
| 1:00-1:50 pm | Session: 105  
Dakota G  
Feb. 6, 2010  
Grade Level: K-12+  
Speaker(s): Judy A. Vondruska, Larry Browning & Christine Larson  
SDSU--AstroMath |
| Galilean Telescope Make and Take  
Using some lenses, PVC pipe and some weather stripping, participants will make telescopes like Galileo made 400 years ago. The math of telescopes will also be discussed. |

<table>
<thead>
<tr>
<th>Saturday</th>
<th>1:00 pm</th>
</tr>
</thead>
</table>
| 1:00-1:50 pm | Session: 106  
Dakota H  
Feb. 6, 2010  
Repeat of #21  
Grade Level: 9-12+  
Speaker: Sheila McQuade  
O'Gorman High School |
| Using the "Write" Tool in Geometry  
In a culture of instant messaging and texting, it is even more important to get students to write in all disciplines. I will share with you some of the activities/lessons I've used to incorporate writing without sacrificing the math content. |
| 1:00-1:50 pm | Session: 107  
Symposium  
Feb. 6, 2010  
Repeat of #61.5  
Grade Level: 6-12+  
Speaker(s): Joseph Rand & Michael Arquin  
Kidwind Project |
| Wind Energy for the Classroom  
Teachers will be introduced to the science behind wind power and exposed to engaging, hands-on wind energy lessons and activities for their classrooms. |
<table>
<thead>
<tr>
<th>Saturday</th>
<th>2:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-2:50 pm</td>
<td>Session: 107.5</td>
</tr>
<tr>
<td>Dakota D</td>
<td>Feb. 5, 2010</td>
</tr>
<tr>
<td>Grade Level: K-12+</td>
<td></td>
</tr>
<tr>
<td>Speakers: Nicole Keegan &amp; Brenda Murphey</td>
<td></td>
</tr>
<tr>
<td>Dakota Middle School-Rapid City</td>
<td></td>
</tr>
<tr>
<td><strong>Matters of the Heart</strong></td>
<td></td>
</tr>
<tr>
<td>Get some samples of fun and unique ways to build relationships with your students. Warning: Chocolate will be present at this presentation.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Saturday</th>
<th>2:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-2:50 pm</td>
<td>Session: 108</td>
</tr>
<tr>
<td>Prairie A</td>
<td>Feb. 6, 2010</td>
</tr>
<tr>
<td>Grade Level: 6-8</td>
<td></td>
</tr>
<tr>
<td>Speaker(s): Jan Martin</td>
<td></td>
</tr>
<tr>
<td>SD DOE</td>
<td></td>
</tr>
<tr>
<td><strong>NAEP 2009: 8th Graders Are at the Head of the Class</strong></td>
<td></td>
</tr>
<tr>
<td>NAEP 2009 math data will be presented with an emphasis on the variables that appear to give us an advantage over many other states in terms of student performance.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Saturday</th>
<th>2:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-2:50 pm</td>
<td>Session: 109</td>
</tr>
<tr>
<td>Prairie B</td>
<td>Feb. 6, 2010</td>
</tr>
<tr>
<td>Grade Level: 6-12+</td>
<td></td>
</tr>
<tr>
<td>Speaker: Anne Lewis</td>
<td></td>
</tr>
<tr>
<td>SD Discovery Center</td>
<td></td>
</tr>
<tr>
<td><strong>Biomonitoring for Climate Change</strong></td>
<td></td>
</tr>
<tr>
<td>Biomonitoring for climate change is a professional development opportunity funded by EPA Region 5 Environmental Education Program. Twelve teachers will be trained and equipped (and we do mean equipped) to implement biomonitoring and climate change education in their classrooms. Come learn how you can participate.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Saturday</th>
<th>2:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-2:50 pm</td>
<td>Session: 110</td>
</tr>
<tr>
<td>Prairie C</td>
<td>Feb. 6, 2010</td>
</tr>
<tr>
<td>Grade Level: K-5</td>
<td></td>
</tr>
<tr>
<td>Speaker: Kathleen L. Matthews</td>
<td></td>
</tr>
<tr>
<td>BHSU</td>
<td></td>
</tr>
<tr>
<td><strong>Teaching Process Skills through Activities</strong></td>
<td></td>
</tr>
<tr>
<td>In this session we will use activities to investigate the basic science process skills.</td>
<td></td>
</tr>
</tbody>
</table>
Saturday 2:00 pm

2:00-2:50 pm  Session: 111
Dakota A  Feb. 6, 2010

Grade Level: 3-5

Speaker(s): Kenneth Graupmann
SD Discovery Center

ATLSS Project (Advancing Teacher Leaders in Space Science)
Help teachers engage & educate students in space science utilizing innovative instructional strategies, effective curricular resources and engaging content. There will be a door prize of curriculum materials.

2:00-2:50 pm  Session: 112
Dakota B  Feb. 6, 2010

Grade Level: 9-12+

Speaker: Tom Berg, 2009 Presidential Award State Finalist
Mitchell HS

Parametric Equations, Projectiles and a Video Camera
This is a presentation on parametric equations. The students will launch a projectile and record the time it is in the air and how far it went. The video camera was used to find the initial velocity. Students will then find the equation that models this situation.

Saturday 2:00 pm

2:00-2:50 pm  Session: 113
Dakota E  Feb. 6, 2010

Grade Level: 6-12+

Speaker(s): Julie Olson & Tricia Neugebauer
Mitchell High School

Movies and Science
Use of commercial movies to teach and illustrate scientific concepts in biology and chemistry.

2:00-2:50 pm  Session: 114
Dakota F  Feb. 6, 2010

Grade Level: 6-12+

Speaker: Jay Berglund
Gettysburg HS

Computer Software I Use in my Classroom
Demonstration of TI-Smart-View, TI-Interactive, Math Type and SmartBoard as well as equation editor software.

2:00-2:50 pm  Session: 115
Dakota G  Feb. 6, 2010

Repeat of #20
Grade Level: K-12+

Speaker: Nicole Keegan
Dakota Middle School-Rapid City

Moving to Inquiry
Learn ways to take "cookie cutter" labs and make them more investigative. Come with a lab that you already do--we will work to raise the student thinking!
Saturday  2:00 pm

2:00-2:50 pm    Session:  116
Dakota H        Feb. 6, 2010

Grade Level:  K-12+

Speaker:  Gregory Diersen
          Great Plains :Lutheran

Prairie Plants-Identify and Preserve
Learn to better identify, preserve, and use native prairie plants for teaching. Practice with specimens from a research experience for teachers (RET) during the session.

2:00-2:50 pm    Session:  117
Symposium        Feb. 6, 2010

Repeat of #43.5
Grade Level:  3-8

Speaker:  Steven Wegman

Wind for School
Wind for School is a pilot program from US. Department of Energy. This program brings an expert on wind energy in to the classroom. Check us out at WAC.SDWIND.ORG or OASDWIND.ORG.

VENDORS

Thank you for displaying your books and materials.

Would you like to see your ad here next year?
Contact  James.Stearns@k12.sd.us

Saturday  2:00 pm

3:00-3:50    Session:  118
Dakota C      Feb. 6, 2010

Grade Level:  All

Facilitator:  Jean Gomer
              Deubrook Area Schools

Math Follow up
This is a chance to share your reflections on the sessions you attended at the conference.

3:00-3:50    Session:  119
Dakota F      Feb. 6, 2010

Grade Level:  All

Speaker(s):  Ramona Lundberg
            President of SDSTA

Science Follow up
This is a chance to share your reflections on the sessions you attended at the conference.

4:00-    Session:  120
Board Room    Feb. 6, 2010

Joint Conference Board Meeting

Participants
Thank you for helping us make this conference great!