Program for 2009 Joint Conference

Thursday    7 pm
7:00-9:00 pm  Session:  1
Dakota C    Feb. 5, 2009
Grade Level:  K-C

Speaker(s):  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.

7:00-9:00 pm  Session:  2
Dakota G    Feb. 5, 2009
Grade Level:  K-C

Speaker(s):  Molly TenBroek
President-elect of SDSTA

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

Next Year’s Conference is
February 4, 5, & 6, 2010

Friday    8:30 am
8:30-9:20 pm  Session:  3
Prairie C    Feb. 6, 2009
Grade Level:  K-C

Featured Speaker
Dr. Jose Alonso
Sanford Underground Lab

Deep Science for Everyone
A description of the current progress at Homestake mine and how the worldwide demand for “deep” science labs is creating opportunities all across SD.

8:30-9:20 am  Session:  4
Dakota A    Feb. 6, 2009
Grade Level:  K-12

Speaker(s):  Nola Redmond
& David Lewis
Connecting Point

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 Teaching Accessories and ActivStudio Software features of the Promethean ActiveBoards. You will see the new ActiveExpressions in action and be shown how they work and 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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>5</td>
<td>K-8</td>
<td>Erin N. Larsen</td>
<td>Ready, Set, Science! Putting research to work in K-8 science classrooms. Participants will receive a copy of the book, &quot;Ready, Set, Science.!</td>
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<tr>
<td>8:30-9:20 am</td>
<td>6</td>
<td>3-12</td>
<td>Steven M. Wegman &amp; Mary Cook</td>
<td>Wind for Schools So you want to get a wind energy turbine for your school? Mr. Wegman is the state wind facilitator for wind for school. See <a href="http://www.sdwind.com/wac">www.sdwind.com/wac</a></td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>7</td>
<td>K-5</td>
<td>Cindy Stofferhn &amp; Mary Cook</td>
<td>Enhance Your Math Content with Illuminations Lessons and Activities We all struggle to make sure we are meeting all the math standards for our grade levels. But as we all know, whatever curriculum materials we use, there are gaps and overlaps. We would like to share our process for meeting and exceeding the math standards at our grade level. This is done through the use of our state math standards, Kathy Richardson's Planning Guide and Materials, and Illuminations. See some of the Illuminations lessons in action and bookmark this site for your classroom teaching.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>8</td>
<td>9-12</td>
<td>Christina F. Bosse</td>
<td>Land of the Sea Monkeys Get students excited about ecology with their own Sea Monkey Colony! A great biology project.</td>
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Do you have a banquet ticket?
The speaker is Dr. Ed Porthan, founder of Embracing Excellence.
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
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<tbody>
<tr>
<td>Friday 8:30 am</td>
<td>Session: 9</td>
<td><strong>Construction Projects in the Mathematics Classroom</strong></td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>Dakota F</td>
<td>In this workshop, participants will create artwork based on the golden ratio using pentagons, squares, and a golden rectangle.</td>
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<tr>
<td>Grade Level:</td>
<td>6-12</td>
<td>Speaker(s): John D. Hollingsworth University Center</td>
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<tr>
<td>Friday 8:30 am</td>
<td>Session: 10</td>
<td><strong>Introducing the TI-N-spire CAS</strong></td>
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<tr>
<td>8:30-9:20 am</td>
<td>Dakota G</td>
<td>Texas Instruments new calculator the TI-N-spire CAS is a powerful tool for teaching math with data collection capabilities for the science teacher. Some of these capabilities will be introduced.</td>
</tr>
<tr>
<td>Grade Level:</td>
<td>6-12</td>
<td>Speaker(s): Larry Browning &amp; Bob Tower SDSU &amp; TI</td>
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<tr>
<td>Friday 8:30 am</td>
<td>Session: 11</td>
<td><strong>Formative Assessment/Achievement Series</strong></td>
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<tr>
<td>8:30-9:20 am</td>
<td>Dakota H</td>
<td>This session will be an overview of the Achievement Series. This is standards based assessment available at <a href="http://www.achievementseries.com">www.achievementseries.com</a></td>
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<tr>
<td>Grade Level:</td>
<td>K-12</td>
<td>Speaker(s): Dr. Kimberly A. Cypher SD DOE</td>
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<tr>
<td>Friday 8:30 am</td>
<td>Session: 12</td>
<td><strong>Motivational Learning Games</strong></td>
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<tr>
<td>8:30-9:20 am</td>
<td>Symposium</td>
<td>Come play games! Bingo, Taboo &amp; scavenger hunts are adapted to meet desired concepts being studied. These games are used to connect concepts, learn new material and motivate students.</td>
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<tr>
<td>Grade Level:</td>
<td>6-12</td>
<td>Speaker(s): Angie Wilken Woodfield Center</td>
</tr>
<tr>
<td>Friday 8:30 am</td>
<td>Session: 13</td>
<td><strong>Clickers in the Classroom</strong></td>
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<tr>
<td>8:30-9:20 am</td>
<td>Salon</td>
<td>Student response systems provide an opportunity for everyone in your classroom to participate and for you to learn, on the spot, how well your students understand the materials you are teaching. This session will provide hands-on experience with one type of clicker system and look at what research indicates about the use of clickers in the classroom.</td>
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<tr>
<td>Grade Level:</td>
<td>9-12</td>
<td>Speaker(s): Judy Vondruska SDSU</td>
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<td>Have you checked out “Share the Classroom Treasures”?</td>
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<td>Stop in the Board Room and see what is there.</td>
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Friday  9:30 am

9:30-11:20 am  Session:  14
Prairie A   Feb. 6, 2009
Grade Level:  6-9

Featured Speaker
Don Balka
Saint Mary's College Notre Dame, IN

Algebra Tiles:
Representing the Big Idea
Participants will be actively involved with algebra tiles for visualizing major algebra concepts: operations, and algebraic expressions, solving equations, inequalities, and playing games for reinforcing the big ideas. Materials will be provided.

Friday  9:30 am

9:30-11:20 am  Session:  15
Prairie B   Feb. 6, 2009
Grade Level:  6-12

Speaker(s): Rocky Von Eye
Dakota Wesleyan University

Real Data Makes Functions Come Alive
Using real data and the graphing calculator linear, piece-wise, quadratic, cubic and exponential functions are seen as relevant.

Friday

9:30-10:20 am  Session:  16
Prairie C   Feb. 6, 2009
Grade Level:  K-12

Speaker(s):  Jensi Kellogg-Andrus
Watertown HS

From Smart Board to iPod, Step by Step Instructions
Learn how to make a movie of best examples. Import the movie to your iPod (which your students will also be able to do). Your students will have videos of examples for every chapter right on their iPods. (Software needed: SmartBoard recorder, Quicktime Pro and iTunes--other options are available)

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<th>Session</th>
<th>9:30 am</th>
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<tr>
<td>19</td>
<td>9:30-10:20 am</td>
<td>20</td>
<td>9:30-10:20 am</td>
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<td>Dakota C</td>
<td>Dakota E</td>
<td>Dakota D</td>
<td>Dakota F</td>
</tr>
<tr>
<td>Feb. 6, 2009</td>
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**Grade Level:**
- 6-12
- 9-12

**Speaker(s):**
- Jane Healy & Julie Erickson
  - SD State Library
- Harlan J. Heitz & Dr. Richard Peterson
  - Presentation College
- Julie Olson & Tricia Neugebauer
  - Mitchell HS
- Matthew Miller & Larry Browning
  - SDSU

**World Book Online and More Resources to Support Math**

Did you know the SD State Library provides subscription electronic resources that support the SD Math Content Standards? Expand your teaching tools by attending this session that provides a demonstration of the electronic resources. Bring your own laptop and follow along.

**Chemical Safety and Storage in the Classroom**

How safe is your lab? Join us for some chemical safety updates on how to keep your students safe and your chemical storage secure.

**Preservice Science Teacher Conversation**

This is an opportunity to meet future science teachers from SDSU. Students will have planned questions to ask experienced teachers, so please come and share your expertise with these novice instructors.

**Do you have a banquet ticket?**

The speaker is Dr. Ed Porthan, founder of Embracing Excellence.

**Have you checked out the vendors?**
Multiplication & Division Facts

This session will allow teachers to share strategies to help elementary students who struggle with their facts. From the research to the classroom, what works, what practice looks like.

9:30-10:20 am  Session:  23
Dakota G   Feb. 6, 2009
Grade Level:  K-5
Speaker(S):  Micheline Hickenbotham
BHSU

2009 International Year of Astronomy

Become involved in promoting astronomy in 2009! Learn about local/national and international resources as well as activities for your students including The Great World Wide Star Count. This session will focus on providing resources and developing ideas for promoting astronomy in 2009.

Friday 10:30 am
10:30-11:20 am  Session:  27
Prairie B   Feb. 6, 2009
Grade Level:  3-8

Featured Speaker
Murray H. Siegel
Central Arizona College

The Truth about Fractions, Decimals, and Percents

What is a fraction? Learn the reasons for our methods used in operating with fractional numbers.
Friday 10:30 am

10:30-11:20 am  Session:  28
Dakota A   Feb. 6, 2009

Grade Level:  K-12

Speaker(s):  Kristi Lutgen
Deubrook Area Schools

Telling a Story Using Photostory

As a teacher, I am always looking for free and powerful technology to use in my classroom. Microsoft Photostory is such a program. I will show you the basics of using Photostory and share a project I developed using the program please bring your laptop/notebook so you too can enjoy the program.

10:30-11:20 am  Session:  29
Dakota B   Feb. 6, 2009

Grade Level:  6-8

Speaker(s):  Danielle Keninger & Brooke McDonald
Chester Area School

Beyond the Textbook

This session will focus on the use of manipulatives and other hands-on activities used to present and reinforce mathematical concepts in grades 5-8. Teachers will learn how to use these activities to support standards being taught.

Friday 10:30 am

10:30-11:20 am  Session:  30
Dakota C   Feb. 6, 2009

Repeat of #89

Grade Level:  6-12

Speaker(s):  Jane Healy & Julie Erickson
SD State Library

World Book Online and More
Resources to Support Science

Did you know the SD State Library provides subscription electronic resources that support the SD Science Content Standards? Expand your teaching tools by attending this session that provides a demonstration of the electronic resources. Bring your own laptop and follow along.

10:30-11:20 am  Session:  31
Dakota D   Feb. 6, 2009

Repeat of #89

Grade Level:  K-12

Speaker(s):  Lori Keleher & Allen Hogie
Miller HS & Brandon Valley HS

Take One!

Learn about a unique offering from the National Board for Professional Teaching Standards. Participate in a roundtable discussion about the certification process.

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<th>Speaker(s)</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10:30-11:20 am</td>
<td>32</td>
<td>K-2</td>
<td>SD Discovery Center Staff</td>
<td>Great Explorations in Math and Science (G.E.M.S.) for Early Elementary</td>
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<td>&quot;Treasure Boxes&quot; and &quot;Tree Homes&quot; are GEMS kits filled with hands-on, engaging activities for early elementary students. Come discover how to use these activities in your classroom or after school program.</td>
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<tr>
<td>10:30-11:20 am</td>
<td>33</td>
<td>6-12</td>
<td>Ashley Van Maanen</td>
<td>Q &amp; A--Help Us Out</td>
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<td>SDSU Students, Sherri Christensen, Matt Gill, Kelsey Guy, Laura Jones, Jack Mueller, Heidi Quail, Melanie Zinter, and others would like to discuss first year teacher issues, concerns, and preparation. Bring your thoughts and advice for these young professionals.</td>
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<tr>
<td>10:30-11:20 am</td>
<td>34</td>
<td>3-12</td>
<td>Larry Browning &amp; Matt Miller</td>
<td>Interactive Data Collection and Analysis</td>
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<td>Participants will be introduced to the use of specific data collection probes. Data will be collected during the session, then analyzed. Participants are encouraged to bring their own equipment to participate in the analysis.</td>
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<tr>
<td>10:30-11:20 am</td>
<td>35</td>
<td>3-5</td>
<td>Steven M. Rokusek</td>
<td>Cyberchase: Math &amp; Sports</td>
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<td>The presentation will cover lessons that will incorporate mathematics, sports &amp; fun into your classroom.</td>
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<tr>
<td>10:30-11:20 am</td>
<td>36</td>
<td>K-12</td>
<td>Bill Gripentrog</td>
<td>Motivating the Unmotivated</td>
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<td>Getting students to care is challenging in today's culture. Some strategies that I have used to reach these students will be presented.</td>
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</table>
### YouTube Physics and Other Online Resources for Physics

Take advantage of the many online resources for teaching physics. YouTube offers videos of physics-related activities difficult to demonstrate in a classroom. Online tutorials and interactive labs can help students learn in and out of the classroom. In this session you will learn about a variety of online resources - all of which are free! Bring your laptop and join in the fun!

### Unifix Cube Activities for the Primary Grades

Unifix Cubes are an important part of any beginning mathematics program. They are useful for developing classification skills, one-to-one correspondence, basic operations, ordinal numbers, problem-solving skills, patterning, and geometric ideas. Materials will be provided.

### Polynomials Are Numbers, Too!

If students can see the relationship between whole numbers and polynomials, algebra becomes more meaningful.
1:30-2:20 pm  Session:  41
Prairie C   Feb. 6, 2009
Grade Level:  K-12

Featured Speaker
Nate Jones
Wessington Springs Wind Farm

Wind Energy of Wessington Springs
and South Dakota
The newly opened Wind Energy Project at
Wessington Springs, SD will provide clean and
renewable energy to USD and SDSU. This
presentation will describe the development of
harnessing wind energy throughout our great
state.

1:30-2:20 pm  Session:  42
Dakota A   Feb. 6, 2009
Grade Level:  K-12

Speaker(s):  Kristi Lutgen
Deubrook Area Schools

The Board in Action
If you have a Promethean Board, are getting
one, or you are just curious what they are, then
this session is for you. I will show you some
neat features the Board has to offer, whether
you are a math teacher, science teacher or an
elementary teacher.

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<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>Friday</td>
<td>1:30 pm</td>
<td>K-5</td>
<td>Sandy Ullrich &amp; Mary Jo Christensen</td>
<td>Standards Based Activities</td>
</tr>
<tr>
<td>1:30-3:20 pm</td>
<td>45</td>
<td></td>
<td>Aberdeen &amp; Webster Elementary</td>
<td>Math activities to get students thinking and talking with each other. Activities will cover Standards and all strands of Math.</td>
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<tr>
<td>Dakota D</td>
<td></td>
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<tr>
<td>1:30-2:20 pm</td>
<td>46</td>
<td>K-12</td>
<td>Erin N. Larsen</td>
<td>A Framework for SD Content Standards</td>
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<tr>
<td>Dakota E</td>
<td></td>
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<td>SD DOE</td>
<td>Learn how the SD Department of Education is preparing for content standards revisions in Math and Science and give your input on this important process.</td>
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<tr>
<td>1:30-2:20 pm</td>
<td>47</td>
<td>6-8</td>
<td>Christine Larson</td>
<td>Fractions, Fractions, Fractions</td>
</tr>
<tr>
<td>Dakota F</td>
<td></td>
<td></td>
<td>SDSU</td>
<td>Fraction activities that will help your students to really understand fractions and not just memorize procedures.</td>
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<tr>
<td>1:30-2:20 pm</td>
<td>48</td>
<td>6-12</td>
<td>Larry Browning, Matthew Miller, Paula Kurtenbach &amp; Jerome Krueger</td>
<td>OPIS: Our Place in Space</td>
</tr>
<tr>
<td>Dakota G</td>
<td></td>
<td></td>
<td>SDSU</td>
<td>OPIS engaged teachers in activities to provide support for educationally disadvantaged students so that they can excel in math and science. The activities in 2008 included multicultural and financial aid discussion, and content specific activities. Come hear about the activities and build a temperature probe for a cb121 lab pro.</td>
</tr>
<tr>
<td>1:30-2:20 pm</td>
<td>49</td>
<td>9-12</td>
<td>Steven M. Rokusek</td>
<td>What’s Up in Finance</td>
</tr>
<tr>
<td>Dakota H</td>
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<td></td>
<td>SD Public Broadcasting</td>
<td>SDPB will highlight &quot;What's Up in Finance.&quot; This upbeat new personal finance program comes complete with lesson plans &amp; an interactive website. Each participant will receive a DVD of the program.</td>
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What is new in vendor land this year?
### Friday 1:30 pm

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<th>Session: 50</th>
<th>Feb. 6, 2009</th>
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<tr>
<td><strong>1:30-2:20 pm</strong></td>
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<tr>
<td><strong>Symposium</strong></td>
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<td><strong>Grade Level:</strong> K-12</td>
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<tr>
<td><strong>Speaker(s):</strong> Marlene Rothermel &amp; Lanette Johnston TIE &amp; DOE</td>
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<td><strong>National Board &amp; TTSN</strong></td>
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<td>Teachers will learn about the National Board Certification program and the state-wide virtual mentoring program</td>
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### Friday 2:30 pm

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<tr>
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<tbody>
<tr>
<td><strong>2:30-3:20 pm</strong></td>
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<tr>
<td><strong>Prairie B</strong></td>
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<td><strong>Grade Level:</strong> 6-12</td>
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<tr>
<td><strong>Featured Speaker</strong> Murray H. Siegel Central Arizona College</td>
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<tr>
<td><strong>The Truth about Integers and Exponents</strong></td>
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<tr>
<td>Learn why a negative times a negative is a positive and why a number to the zero power is one, and much, much more.</td>
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### Friday 1:30 pm

<table>
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<tr>
<th>Session: 51</th>
<th>Feb. 6, 2009</th>
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<tbody>
<tr>
<td><strong>1:30-2:20 pm</strong></td>
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<tr>
<td><strong>Salon</strong></td>
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<td><strong>Grade Level:</strong> 9-12</td>
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<tr>
<td><strong>Speaker(s):</strong> Judy Vondruska &amp; Cathy Ezrailson SDSU &amp; USD</td>
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<tr>
<td><strong>STEM Education Research Group</strong></td>
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<tr>
<td>Are you interested in conducting, participating in or learning about education research related to science, technology, engineering or mathematics? If so, join us for this organizational meeting of K-12 teachers and university faculty interested in education research in the STEM disciplines.</td>
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### Friday 2:30 pm

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<th>Session: 53</th>
<th>Feb. 6, 2009</th>
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<tr>
<td><strong>2:30-3:20 pm</strong></td>
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<tr>
<td><strong>Prairie C</strong></td>
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<tr>
<td><strong>Grade Level:</strong> 6-12</td>
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<tr>
<td><strong>Featured Speaker</strong> Tom Muchlinski NCTM Affiliate Services Committee</td>
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<tr>
<td><strong>Answer the Question…Then Question the Answer</strong></td>
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<td>We will discuss several problems and activities that illustrate how students' understanding can be deepened by questions that are asked and investigations that are pursued once the solution has been determined.</td>
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</table>
Friday 2:30 pm

2:30-3:20 pm  Session:  54
Dakota A  Feb. 6, 2009
Grade Level:  9-12
Speaker(s):  Kristen D. Gonsoir
Groton HS

The Promethean Board in the Science Classroom
Ideas and uses of an interactive white board will be demonstrated. They are not just for elementary classrooms.

2:30-3:20 pm  Session:  55
Dakota B  Feb. 6, 2009
Grade Level:  3-12
Speaker(s):  Jan Martin
SD DOE

Math & Science Questions Galore!
Looking for more assessment resources, especially for more open-ended items? The NAEP Questions Tool contains dozens of released items that align to South Dakota Standards. Come learn how to use this on-line resource!

Friday 2:30 pm

2:30-4:20 pm  Session:  56
Dakota C  Feb. 6, 2009
Grade Level:  K-5
Speaker(s):  Rene M. Pruitt
Dakota Wesleyan University

Using Authentic Children's Literature as a Springboard for Teaching K-6 Mathematics
"Doing" math is more dynamic when integrating children's literature with teaching methods that capture the student's attention. Mathematics becomes more realistic and provides a welcome change of pace for the classroom teacher and for the students. DWU Education majors present innovative options for connecting mathematics to literature.

2:30-3:20 pm  Session:  57
Dakota E  Feb. 6, 2009
Repeat of #83
Grade Level:  9-12
Speaker(s):  Sheila E. McQuade
O'Gorman HS

Hands-on Geometry
Your students can "discover" many of the formulas or theorems we teach using simple manipulatives like spaghetti and straws. You'll have ideas ready for Monday morning.

Next Year's Conference is February 4, 5, & 6, 2010
### Friday 2:30 pm

2:30-3:20 pm  
**Dakota F**  
Repeat of #103  
Grade Level: 6-12  

**Speaker(s): Eugene R. Bormann**  
US Army Corps of Engineers  

**Endangered Species of the Missouri River**  
An introduction to why the least tern, piping plover and pallid sturgeon became endangered and what is being done to restore each population.

2:30-3:20 pm  
**Dakota G**  
Grade Level: 9-12  

**Speaker(s): James E. Stearns**  
Groton Area School Dist.  

**SD-AAPT Photo Contest**  
Final voting and judging will be taking place on the photos and essays submitted. (Check out the photos in the hall Thursday night and/or Friday and put in your 2 cents worth.)

2:30-3:20 pm  
**Dakota H**  
Grade Level: K-12  

**Speaker(s): Chad R. Tussing**  
SD Game, Fish & Parks  

**Black-footed Ferrets**  
Join us for a presentation about North America's most endangered mammal. We'll discuss biology, history, management and educational activities for the classroom.

### Friday 2:30 pm

2:30-3:20 pm  
**Symposium**  
Grade Level: 6-12  

**Speaker(s): Sharon Vestal, Chris Larson, Judy Vondruska**  
SDSU  

**Mathematics on the Move**  
Last summer we held a workshop that uses science activities to teach mathematics concepts. It is based on the successful Science on the Move project. We will demonstrate some activities from the workshop. This project was funded by a Board of Regents Title II NCLB grant and we have applied for funding again.

2:30-4:20 pm  
**Salon**  
Grade Level: 9-12  

**Speaker(s): Pandi Pittman**  
Wall School District  

**Copper Mining**  
Going through the steps of extracting copper from a rock sample while reviewing science inquiry learning.

Next Year's Conference is  
February 4, 5, & 6, 2010
### Friday 3:30 pm

<table>
<thead>
<tr>
<th>Session: 63</th>
<th>Grade Level: 3-5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Session:</strong> 63</td>
<td><strong>Grade Level:</strong> 3-5</td>
</tr>
<tr>
<td><strong>Prairie A</strong></td>
<td><strong>Feb. 6, 2009</strong></td>
</tr>
<tr>
<td><strong>Featured Speaker</strong></td>
<td><strong>Don Balka</strong></td>
</tr>
<tr>
<td><strong>Saint Mary's College Notre Dame, IN</strong></td>
<td><strong>Activities with Random Digits:</strong> <strong>With and Without Manipulatives</strong></td>
</tr>
<tr>
<td><strong>A page of random digits provides a wealth of activities for numer sense, computation, operations order, place value, estimation, and many more. Findings from classroom research will be included.</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Friday 3:30 pm

<table>
<thead>
<tr>
<th>Session: 65</th>
<th>Grade Level: K-12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Session:</strong> 65</td>
<td><strong>Grade Level:</strong> K-12</td>
</tr>
<tr>
<td><strong>Prairie C</strong></td>
<td><strong>Feb. 6, 2009</strong></td>
</tr>
<tr>
<td><strong>Featured Speaker</strong></td>
<td><strong>Dr. Jose Alonso</strong></td>
</tr>
<tr>
<td><strong>Sanford Underground Lab</strong></td>
<td><strong>Deep Science for Everyone</strong></td>
</tr>
<tr>
<td><strong>Presentation will describe current programs at Homestake and how the worldwide demand for &quot;deep&quot; science labs is creating opportunities all across SD</strong></td>
<td></td>
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</tbody>
</table>

### Friday 3:30 pm

<table>
<thead>
<tr>
<th>Session: 64</th>
<th>Grade Level: K-5</th>
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</thead>
<tbody>
<tr>
<td><strong>Session:</strong> 64</td>
<td><strong>Grade Level:</strong> K-5</td>
</tr>
<tr>
<td><strong>Dakota A</strong></td>
<td><strong>Feb. 6, 2009</strong></td>
</tr>
<tr>
<td><strong>Featured Speaker</strong></td>
<td><strong>Tom Muchlinski</strong></td>
</tr>
<tr>
<td><strong>NCTM Affiliate Services Committee</strong></td>
<td><strong>Using Number and Operation Concepts to Foster Algebraic Thinking in Grades K-5</strong></td>
</tr>
<tr>
<td><strong>Participants will be actively engaged in activities involving number and operations that also promote the understanding of algebraic concepts in the elementary grades. Two of the concepts to be discussed are equality and rates of change.</strong></td>
<td></td>
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</tbody>
</table>

### Friday 3:30 pm

<table>
<thead>
<tr>
<th>Session: 66</th>
<th>Grade Level: K-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Session:</strong> 66</td>
<td><strong>Grade Level:</strong> K-2</td>
</tr>
<tr>
<td><strong>Dakota A</strong></td>
<td><strong>Feb. 6, 2009</strong></td>
</tr>
<tr>
<td><strong>Speaker(s):</strong> Barbara Rokahr-Froiland &amp; Janet Kawecki</td>
<td><strong>Pearson Scott-Foresman</strong></td>
</tr>
<tr>
<td><strong>Center Activities for a New Generation of Math K-2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>The participants in this session will experience hands-on activities incorporating materials from the new Scott Foresman enVision MATH program. Differentiated grade level math center activities as well as digital components from the program will be provided to each participant. Limited to 30.</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Friday 3:30 pm

<table>
<thead>
<tr>
<th>3:30-4:20 pm</th>
<th>Session: 67</th>
<th>Feb. 6, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dakota B</td>
<td>Repeat of #92</td>
<td></td>
</tr>
<tr>
<td>Grade Level:</td>
<td>K-12</td>
<td></td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Micheline Hickenbotham</td>
<td></td>
</tr>
<tr>
<td>BHSU</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2009: Year of Science…Explore, Empower, Engage</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>This conversation will invite teachers to celebrate 2009 as the Year of Science, a national year-long celebration to engage the public in science and improve understanding about how science works, why it matters, and who scientists are. Sponsored by COPUS- Coalition on the Public Understanding of Science</td>
<td></td>
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</tr>
</tbody>
</table>

### Friday 3:30 pm

<table>
<thead>
<tr>
<th>3:30-4:20 pm</th>
<th>Session: 68</th>
<th>Feb. 6, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dakota D</td>
<td>Repeat of #86</td>
<td></td>
</tr>
<tr>
<td>Grade Level:</td>
<td>K-12</td>
<td></td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Sarah P. Carlson</td>
<td></td>
</tr>
<tr>
<td>Saxon Publishing</td>
<td></td>
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</tr>
<tr>
<td><strong>I have a SECRET...</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>You need a Balanced Problem Solving Approach to solve ALL types of word problems! Come to this interactive presentation where you will learn about the two types of word problems and how to teach them to your students.</td>
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### Friday 3:30 pm

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<tr>
<th>3:30-4:20 pm</th>
<th>Session: 69</th>
<th>Feb. 6, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dakota E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade Level:</td>
<td>6-12</td>
<td></td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Anne Lewis</td>
<td></td>
</tr>
<tr>
<td>&amp; Tricia Neugebauer</td>
<td>SD Discovery Center</td>
<td></td>
</tr>
<tr>
<td><strong>The Leopold Education Project</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explore the natural world. Use the resources of the Leopold Education Project to add a cross curricular dimension to ecology and earth science.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Friday 3:30 pm

<table>
<thead>
<tr>
<th>3:30-4:20 pm</th>
<th>Session: 70</th>
<th>Feb. 6, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dakota F</td>
<td>Repeat of #93</td>
<td></td>
</tr>
<tr>
<td>Grade Level:</td>
<td>6-12</td>
<td></td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Paul R. Kuhlman</td>
<td></td>
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<tr>
<td>Avon School</td>
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<tr>
<td><strong>A Penny Saved Is a Penny Earned!</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In this presentation we will learn how to use pennies and other coins to teach the concept of density. This investigation will also lead into a discussion of using pennies to demonstrate physical and chemical changes.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**The vendors have NOT left the building!**

**Next Year's Conference is**

February 4, 5, & 6, 2010
### Friday 3:30 pm

#### Session: 71

**Dakota G**

*Feb. 6, 2009*

**Grade Level:** 9-12

**Speaker(s):** SD-AAPT Officers

**SDSU**

**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

#### Session: 73

**Symposium**

*Feb. 6, 2009*

**Grade Level:** K-8

**Speaker(s):** Marvin Gamble & Marilyn Glick

**USD**

**Number Theory for Elementary Teachers Workshop**

This is a workshop that will be held at USD during the summer of 2009 for one week. Topics in number theory will be covered through exploration and hands-on activities. Three graduate hours credit can be earned.

### Friday 3:30-4:20 pm Session: 75

**SDSTA Business Meeting**

*Feb. 6, 2009*

**Grade Level:** All

**Presider:** Ramona Lundberg

**SDSTA President**

---

**Business Meetings are open to all members. You should go.**
Friday Evening

7:00-9:30 pm  Session:  77  
Prairie A, B, C  Feb. 6, 2009  
Grade Level:  All  
BANQUET  
Speaker:  Ed Porthan  
Boats, Streams, and Dreams  

Saturday Morning

7:00-8:00 am  Session:  78  
Salon  Feb. 7, 2009  
Grade Level:  All Presidential Awardees  
Facilitators:  Diana McCann & Ramona Lundberg  
Presidental 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

8:30-10:20 am  Session:  79  
Prairie A  Feb. 7, 2009  
Grade Level:  6-9  
Featured Speaker  
Don Balka  
Saint Mary's College Notre Dame, IN  
Games and Activities for Prealgebra and Algebra  
Participants will be involved with games and activities for order of operations, integer arithmetic, operations on monomials and binomials, and solving linear and quadratic equations. They will use cards, dice, two-color counters, and number tiles. Materials will be provided.  

8:30-9:20 am  Session:  80  
Prairie B  Feb. 7, 2009  
Grade Level:  3-8  
Featured Speaker  
Muray H. Siegel  
Central Arizona College  
The Truth about Whole Numbers  
Why do we do what we do when we add, subtract, multiply and divide whole numbers? Engaging activities are demonstrated.
<table>
<thead>
<tr>
<th>Saturday</th>
<th>8:30 am</th>
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<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>Session: 81</td>
</tr>
<tr>
<td>Prairie C</td>
<td>Feb. 7, 2009</td>
</tr>
<tr>
<td>Grade Level:</td>
<td>K-12</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Andy Johnson</td>
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<td></td>
<td>CAMSE</td>
</tr>
<tr>
<td>Oil Prices &amp; the Economy: A Complex System in Transition</td>
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<tr>
<td>The rise and fall of oil prices was driven by demand, speculation, finance, and limitations on production. We can expect more troubles with petroleum in the near future. Independent studies of oil discovery and production project a worldwide decline in oil and gas production. Alternative fuels will play a limited role in the future. This presentation takes a scientific (evidence-driven) approach to understanding the energy/economic system.</td>
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<tr>
<td>8:30-10:20 am</td>
<td>Session: 82</td>
</tr>
<tr>
<td>Dakota A</td>
<td>Feb. 7, 2009</td>
</tr>
<tr>
<td>Grade Level:</td>
<td>9-12</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Kelly Riedell</td>
</tr>
<tr>
<td></td>
<td>Brookings HS</td>
</tr>
<tr>
<td>Hands On Biology Activities</td>
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<tr>
<td>Experience a variety of role plays, labs, games, and other hands on learning activities which can be used to introduce new concepts, reinforce understanding, and enhance student performance for all students in your classroom. Participants will take home a CD with instructions and handouts in classroom-ready form.</td>
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<tr>
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<tr>
<td>8:30-9:20 am</td>
<td>Session: 83</td>
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<tr>
<td>Dakota B</td>
<td>Feb. 7, 2009</td>
</tr>
<tr>
<td>Grade Level:</td>
<td>9-12</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Sheila E. McQuade</td>
</tr>
<tr>
<td></td>
<td>O'Gorman HS</td>
</tr>
<tr>
<td>Hands-on Geometry</td>
<td></td>
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<tr>
<td>Your students can &quot;discover&quot; many of the formulas or theorems we teach using simple manipulatives like spaghetti and straws. You’ll have ideas ready for Monday morning.</td>
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<tr>
<th>Saturday</th>
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<tr>
<td>8:30-10:20 am</td>
<td>Session: 84</td>
</tr>
<tr>
<td>Dakota C</td>
<td>Feb. 7, 2009</td>
</tr>
<tr>
<td>Grade Level:</td>
<td>3-12</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Dave &amp; Jan Martin</td>
</tr>
<tr>
<td></td>
<td>Cheyenne-Eagle Butte HS &amp; DOE</td>
</tr>
<tr>
<td>Crafting Math</td>
<td></td>
</tr>
<tr>
<td>Math concepts and skills are fundamental to most traditional and contemporary crafts. Come play with yarn, paper, and other materials that can be used to teach math. Bring your ideas to share!</td>
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<table>
<thead>
<tr>
<th>Saturday</th>
<th>8:30 am</th>
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<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>Session: 85</td>
</tr>
<tr>
<td>Dakota D</td>
<td>Feb. 7, 2009</td>
</tr>
<tr>
<td>Grade Level:</td>
<td>K-5</td>
</tr>
<tr>
<td>Speaker(s):</td>
<td>Brenda Danielson</td>
</tr>
<tr>
<td></td>
<td>Scotland Elementary School</td>
</tr>
<tr>
<td>“M” Is for Measurement</td>
<td></td>
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<tr>
<td>Measurement skills need much practice after introduction. We will explore standards based activities for lessons or centers.</td>
<td></td>
</tr>
</tbody>
</table>
Saturday 8:30 am

8:30-9:20 am Session: 86
Dakota E Feb. 7, 2009
Grade Level: K-12
Speaker(s): Sarah P. Carlson
Saxon Publishing

I have a SECRET…

You need a Balanced Problem Solving Approach to solve ALL types of word problems! Come to this interactive presentation where you will learn about the two types of word problems and how to teach them to your students.

8:30-9:20 am Session: 87
Dakota F Feb. 7, 2009
Grade Level: 6-8
Speaker(s): SD Discovery Center Staff
SD Discovery Center

Great Explorations in Math and Science (G.E.M.S.) for Middle School

Climate Change, Global Warning, and the Greenhouse Effect. The GEMS guide has two major aims: to present scientific theories and help students see the issue from different points of view.

Next Year’s Conference is February 4, 5, & 6, 2010

Saturday 8:30 am

NOTICE—THIS IS AN ALL DAY FOLLOW-UP TO THE SUMMER 2008 WORKSHOP

8:30am -3:50 pm Session: 88
Dakota G Feb. 7, 2009
Grade Level: 6-12
Speaker(s): Larry Browning, Judy Vondruska, & Christine Larson
SDSU

AstroMATH Follow-up

This is an all day follow up session for the summer 2008 workshop sponsored by a NCLB Partnership grant.

8:30-9:20 am Session: 89
Salon Feb. 7, 2009
Grade Level: K-12
Speaker(s): Lori Keleher & Allen Hogie
Miller HS & Brandon Valley HS

Take One!

Learn about a unique offering from the National Board for Professional Teaching Standards. Participate in a roundtable discussion about the certification process.
Saturday 9:30 am

9:30-10:20 am  Session:  90 Prairie B Feb. 7, 2009
Grade Level:  9-12

Featured Speaker
Murray H. Siegel
Central Arizona College

Discovering the Derivative on the Graphing Calculator
Using the power of the graphing calculator, students can discover the derivatives of various functions; and they see what the derivative tells us about a function.

Saturday 9:30 am

9:30-10:20 am  Session:  91 Prairie C Feb. 7, 2009
Grade Level:  8-12

Speaker(s):  Andy Johnson CAMSE

Teaching Radiation by Inquiry: Distinguishing Types of Radiation
In the summer of 2008, 24 SD teachers attended a course on the basics of radiation at the Deep Underground Science and Engineering Laboratory (DUSEL) in Lead. Despite not getting a tour underground, the teachers had a good time and learned the fundamentals of radioactivity and radiation. In this session, we will go through a couple of the inquiry based activities that are designed for students to understand radiation. Our focus will be on helping students learn to distinguish between ionizing and electromagnetic radiation.

Next Year’s Conference is February 4, 5, & 6, 2010
Saturday 9:30 am
9:30-10:20 am  Session:  95
Dakota F  Feb. 7, 2009
Grade Level:  9-12
Speaker(s):  Marvin Gamble  USD

"Eureka" Archimedes Code
We will look at what is in the newest discovery of Archimedes book, the Stomachion puzzle, and how Archimedes did proofs.

9:30-10:20 am  Session:  96
Dakota H  Feb. 7, 2009
Grade Level:  K-12
Speaker(s):  Chad R. Tussing  SD Game, Fish & Parks

Back to the Future with Game, Fish & Parks
Join us for a step back in time to look at 200 years of wildlife history in South Dakota and North America.

Saturday 10:30 am
10:30-11:20 am  Session:  97
Prairie A  Feb. 7, 2009
Grade Level:  3-5
Speaker(s):  Barbara Rokahr-Froiland & Janet Kawecki  Pearson Scott-Foresman

Center Activities for a New Generation of Math 3-5
The participants in this session will experience hands-on activities incorporating materials from the new Scott Foresman enVision MATH program. Differentiated grade level math center activities as well as digital components from the program will be provided to each participant. Limited to 30.

10:30-11:20 am  Session:  98
Prairie B  Feb. 7, 2009
Grade Level:  3-8
Featured Speaker  Murray H. Siegel  Central Arizona College

Engaging Activities to Promote Computational Competency
Generic activities that engage students to maximize their arithmetic skills. Math is fun!

Next Year’s Conference is  February 4, 5, & 6, 2010
Saturday 10:30 am

Prairie C
Repeat of #23
Grade Level: K-5
Speaker(s): Micheline Hickenbotham
BHSU

Multiplication & Division Facts
This session will allow teachers to share strategies to help elementary students who struggle with their facts. From the research to the classroom, what works, what practice looks like.

10:30-11:20 am  Session:100  Feb. 7, 2009
Dakota A
Grade Level: K-12
Speaker(s): Marlene Rothermel
TIE

Journey North: On-line Citizen Science Project
Journey North engages students in a global study of wildlife migration and seasonal change. K-12 students share their own field observations with classmates across North America. During this session we will preview this best practices model for science education.

Dakota B
Repeat of #6
Grade Level: 3-12
Speaker(s): Steven M. Wegman
National Renewable Energy Lab

Wind for Schools
So you want to get a wind energy turbine for your school? Mr. Wegman is the state wind facilitator for wind for school. See www.sdwind.com/wac

Saturday 10:30 am

Dakota C
Repeat of #22
Grade Level: 9-12
Speaker(s): Judy Vondruska
SDSU

2009 International Year of Astronomy
Become involved in promoting astronomy in 2009! Learn about local/national and international resources as well as activities for your students including The Great World Wide Star Count. This session will focus on providing resources and developing ideas for promoting astronomy in 2009.

10:30-11:20 am  Session:103  Feb. 7, 2009
Dakota D
Repeat of #58
Grade Level: 6-12
Speaker(s): Eugene R. Bormann
US Army Corps of Engineers

Endangered Species of the Missouri River
An introduction to why the least tern, piping plover and pallid sturgeon became endangered and what is being done to restore each population.

Next Year’s Conference is
February 4, 5, & 6, 2010
**Saturday 10:30 am**

10:30-11:20 am  
Dakota E  
Feb. 7, 2009  
Repeat of #44  
Grade Level:  7-12

**Speaker(s):** Molly J. TenBroek  
McIntosh High School

**Voyages Through Time--An Astrobiology Science Curriculum**

The Voyages through Time series takes students on an epic journey through the origin of the universe, planets and life. It is a set of 5 CD's which can be incorporated into your present science class or used to teach a full year of astrobiology. The units are Cosmic Evolution, Planetary Evolution, Origin of Life, Evolution of Life, Hominid Evolution and Evolution of Technology. CD's include lessons, lab activities, videos, images, etc. Sample CD's will be handed out to participants.

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10:30-11:20 am  
Dakota F  
Feb. 7, 2009  
Grade Level:  3-8

**Speaker(s):** Becky Umenthum  
Dakota MS Rapid City

**Activities with Random Digits**

Use pages of random digits for many activities: mental computations (whole numbers, fractions, decimals, and integers), order of operations, place value, and more. You'll receive a handout with activities ready to be used in your classroom.

---

10:30-11:20 am  
Dakota H  
Feb. 7, 2009  
Grade Level:  K-12

**Speaker(s):** Cathy Mariotti Ezrailson & Phillip Millard  
USD

**Practicing Safe Science in South Dakota Schools**

A field study of science teaching practices among K-12 teachers in SD has shown a need for safety information training and support statewide so that we keep our schools and students safe.

---

12:00 Noon  
Prairie A, B, C  
Feb. 7, 2009  
Grade Level:  All

**Facilitators:** Cindy Kroon & Ramona Lundberg

**LUNCH**

Announcements  
Door Prizes
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>108</td>
<td>1:00-1:50 pm</td>
<td>3-5</td>
<td>Sandy Ullrich &amp; Marie Schumacher</td>
<td>MINDS Camp</td>
</tr>
<tr>
<td>111</td>
<td>1:00-1:50 pm</td>
<td>9-12</td>
<td>Gregory T. Diersen</td>
<td>Two Physics Equations Using Algebra and TI-Nspire</td>
</tr>
<tr>
<td>109</td>
<td>1:00-2:50 pm</td>
<td>9-12</td>
<td>Julie Olson</td>
<td>Power Houses and Fuel Cell Cars</td>
</tr>
<tr>
<td>110</td>
<td>1:00-1:50 pm</td>
<td>6-12</td>
<td>Paul R. Kuhlman</td>
<td>Discovery Education 3M Young Scientist Challenge</td>
</tr>
<tr>
<td>112</td>
<td>1:00-2:50 pm</td>
<td>K-5</td>
<td>Marcia Torgrude &amp; Penny Smith</td>
<td>Making Sense of Geometry in K-5 Classrooms</td>
</tr>
<tr>
<td>113</td>
<td>1:00-2:50 pm</td>
<td>9-12</td>
<td>Pandi Pittman</td>
<td>Bio Fuels</td>
</tr>
</tbody>
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MINDS Camp

MINDS Camp is a summer camp for students entering grades 3-5. Campers participate in hands-on, inquiry-based activities in Math and Science revolving around a theme. Some of the themes have been Wetlands, Space, Human Body, Measurement, and Olympics.

Power Houses and Fuel Cell Cars

Investigate renewable resources such as wind, solar, and the latest fuel cells. Also take a look at laboratory notebooks.

Discovery Education 3M Young Scientist Challenge

This session will focus on how to become a teacher of student participants in the Young Scientist Challenge.

Making Sense of Geometry in K-5 Classrooms

Is the teaching of geometry out of your comfort zone? That could be because the focus was on terminology, theorems, and proofs rather than reasoning about shapes and relationships. Join us to build your understanding of geometric thought. Enjoy learning geometry through the focus on the four goals for geometry and take the activities and ideas back to your classroom.

Bio Fuels

Comparing the energy content and amount of combustion between ethanol and kerosene.
Saturday 1:00 pm

1:00-1:50 pm  Session:114
Dakota F  Feb. 7, 2009
Grade Level: K-12
Speaker(s): John D. Hollingsworth
University Center

The Game of Cribbage
Learn to play the game. Discover the many aspects of mathematics involved such as counting, combinatorics, strategy and problem solving. Basically a two-person game. It is accessible at all levels, can be completed in 20 minutes and is fun!

1:00-1:50 pm  Session:115
Dakota H  Feb. 7, 2009
Grade Level: K-12
Speaker(s): Cathy Mariotti Ezailson
USD

Year of Science 2009: Possibilities and Opportunities
Why science matters and how we know what we know in science. The Year of Science 2009 provides an opportunity worldwide to participate in monthly events, on-line or face-to-face.

Saturday 2:00 pm

2:00-2:50 pm  Session:116
Dakota B  Feb. 7, 2009
Grade Level: 9-12
Speaker(s): Bill Gripentrog
Watertown HS

The Power of "I" Isn't Imaginary
Unlearning the hidden curriculum will be presented. Students are accountable for their work and there is no "opt-out" option.

Saturday 2:00 pm

2:00-2:50 pm  Session:117
Dakota C  Feb. 7, 2009
Repeat of #13
Grade Level: 9-12
Speaker(s): Judy Vondruska
SDSU

Clickers in the Classroom
Student response systems provide an opportunity for everyone in your classroom to participate and for you to learn, on the spot, how well your students understand the materials you are teaching. This session will provide hands-on experience with one type of clicker system and look at what research indicates about the use of clickers in the classroom.

3:00-3:50 pm  Session:118
Dakota C  Feb. 7, 2009
Grade Level: K-12
Speaker(s): Jean Gomer
& Diana McCann
Deubrook HS & Bon Homme HS

Math Wrap-up & Sharing Session
This is a chance to share your reflections on the sessions you attended at the conference.

3:00-3:50 pm  Session:119
Dakota F  Feb. 7, 2009
Grade Level: K-12
Speaker(s): Larry Browning
& James Stearns
SDSU & Groton HS

Science Wrap-up & Sharing Session
This is a chance to share your reflections on the sessions you attended at the conference.