### Program for 2006 Joint Conference

#### Thursday 7 pm

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00-9:00 pm</td>
<td>1</td>
<td>Dakota A</td>
<td>K-C</td>
<td>Chuck Holmstrom, Facilitator</td>
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<td>SDCTM President</td>
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**Title:** Math Sharing Session  
Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity or lesson.

#### Friday 8:30 am

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<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>4</td>
<td>Dakota A</td>
<td>9-12</td>
<td>Lindsey L. Hins</td>
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<td>Huron High School</td>
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</table>

**Title:** Math Activity with the TI-84 Calculator and CBR  
This session will provide participants with TI-84 & CBR math activity and additional TI-84 calculator tips.

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<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>5</td>
<td>Dakota B</td>
<td>Repeat of # 79</td>
<td>Brant Miller &amp; Dr. Robb Winter</td>
</tr>
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<td></td>
<td>6-12</td>
<td>Douglas MS/SDSM&amp;T</td>
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</tbody>
</table>

**Title:** Research Experience for Teachers (RET) at SDSM & T  
Come get information about the premier professional development opportunity for 6th-12th grade science teachers in the region.

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</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>6</td>
<td>Dakota C</td>
<td>6-12</td>
<td>Nicole M. Keegan</td>
</tr>
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<td>Dakota Middle School, Rapid City</td>
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</tbody>
</table>

**Title:** Evolution of Evolution in Science  
A look at evolution in the science classroom using research and present day evolution issues.
<table>
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<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>7</td>
<td>K-12</td>
<td>Dawn Wirth, Current Presidential Awardee</td>
<td>Experience Japan-Free</td>
</tr>
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<td></td>
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<td>Hurley School</td>
<td>Come and learn how you too can experience the Japanese educational system. From preschool to college, learn how you can travel to Japan on a Fulbright Memorial Funds Scholarship. The three weeks that Dawn spent in Japan will forever change her cultural teaching and it is within everyone’s reach.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>8</td>
<td>9-12</td>
<td>Christine Mikles, CPM Educational Program</td>
<td>Proof! Finally a Logical Approach!</td>
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<td>The development of proof begins with deductive reasoning by way of games. The goal is to use communication, reasoning and logic skills needed in proof. Participants will justify and argue strategies as they come to conclusions. Three types of proof will be modeled: Flowchart, paragraph and two-column.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>9</td>
<td>6-8</td>
<td>Lisa R. Gustafson, Holt, Rinehart &amp; Winston</td>
<td>Game Time</td>
</tr>
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<td></td>
<td>Fun, engaging problem solving games for the middle school classroom.</td>
</tr>
<tr>
<td>8:30-10:20 am</td>
<td>10</td>
<td>K-6</td>
<td>David A. Broadwell, Alcester-Hudson Schools</td>
<td>From School Improvement to Blue Ribbon School Status</td>
</tr>
<tr>
<td></td>
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<td>A teacher’s perspective on how using the Everyday Mathematics program and structured improvements contributed to our progress.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>11</td>
<td>6-8</td>
<td>Chris Larson, SDSU</td>
<td>The Connected Mathematics Project for Middle School</td>
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<td>Come find out about a middle school curriculum that is considered “exemplary” by the Department of Education.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>12</td>
<td>K-4</td>
<td>Dianne Miller, Project Learning Tree</td>
<td>Environmental Education Programs K-4</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Hear about the latest environmental opportunities for K-4 educators with materials and a drawing! All participants through the day will be eligible for a big prize!</td>
</tr>
</tbody>
</table>
**Friday**

9:30-11:20 am
Prairie A
Grade Level: K-12

Speaker(s): Kelly Lane, Featured Speaker
Retired Science Teacher

**Title:** Hook, Line and Sinker

"Hook" Students with a "Line" of geospatial tools they will embrace to "sink" home. Join a retired-but-still-excited science teacher and take home ideas, specific activities and sources for high tech equipment and software that you can use right away.

9:30-10:20 am
Prairie B
Repeat of # 75
Grade Level: 6-C

Speaker(s): Lori McNeal Reece, Featured Speaker
Xtreme Xpress

**Title:** Math-Lite--Formula Free

What do students REALLY have to commit to memory? Getting past our dependence on formulae!

**Next Year’s Conference is**
February 1, 2, & 3, 2007

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**Friday**

9:30-10:20 am
Prairie C
Grade Level: K-4

Speaker(s): Richard J. Callan, Featured Speaker
Bunker Hill Elementary

**Title:** Where’s the Connection?
Algebra and Children’s Literature

Participants will be engaged in activities that involve the concept of algebra and using children’s literature. A handout with activities and books will be given.

9:30-11:20 am
Dakota A
Repeat of # 100
Grade Level: 9-C

Speaker(s): Michael T. Catalano
DWU

**Title:** College Algebra in Context:
Some examples from an ongoing NSF Project

This session will provide an overview of and examples from an ongoing NSF project which includes the development of a data-driven college algebra course incorporating examples related to energy, hunger, poverty, and other social issues. Examples can be adapted for use in a variety of courses, including high school algebra and FST courses.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>9:30-10:20 am</td>
<td>17</td>
<td>Dakota B</td>
<td>6-12</td>
<td>Ramona Lundberg &amp; Sally Stoll</td>
<td>Resources from the American Physiological Society (APS)</td>
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<td>Come and hear about the resources provided for science teachers grades 6-12. Project Wise Web will be introduced and free materials will be given to participants.</td>
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<tr>
<td>9:30-10:20 am</td>
<td>18</td>
<td>Dakota C</td>
<td>8-C</td>
<td>Larry Browning &amp; Judy Vondruska</td>
<td>Web Cams for Astronomy</td>
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<td>We will discuss how to modify a WebCam for use with a telescope. Software and plans will be available.</td>
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<td>9:30-11:20 am</td>
<td>19</td>
<td>Dakota E</td>
<td>9-12</td>
<td>Lonnie A. Bellman</td>
<td>Exploring a Standards-Based, Student-Centered Curriculum: CPM, Grades 6-12</td>
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<td>Participants will explore activities from one of the Exemplary Programs: College Preparatory Mathematics. When students work through the problems in CPM, they develop not only problem solving skills, but a better understanding of the basics. The learning is thinking and long term because of the mastery over time feature.</td>
</tr>
<tr>
<td>9:30-10:20 am</td>
<td>20</td>
<td>Dakota F</td>
<td>9-C</td>
<td>Rocky Von Eye</td>
<td>What makes web-based materials usable for faculty and students?</td>
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<td>Examples of geometry and algebra lesson plans that incorporate online resources from Merlot will be presented and shared with participants.</td>
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<tr>
<td>9:30-11:20 am</td>
<td>21</td>
<td>Dakota G</td>
<td>K-4</td>
<td>Carol Den Otter</td>
<td>Number Sense: What It Is, Why It Is Important and How to Teach It</td>
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<td>Come and get suggestions for teaching number sense that help children gain an expectation that numbers are useful and that math has a certain regularity. Activities presented will promote thinking and reflecting about numbers.</td>
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<tr>
<td>9:30-11:20 am</td>
<td>22</td>
<td>Symposium</td>
<td>9-C</td>
<td>Dan Van Peurseum, Facilitator</td>
<td>College Forum: Transition from High School to College Mathematics</td>
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<td>Representatives from the mathematics departments of the higher education institutions will discuss topics relevant to the transition for students from high school to college mathematics.</td>
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**Friday**

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<tbody>
<tr>
<td>9:30-10:20 am</td>
<td>23</td>
<td>Salon</td>
<td>5-8</td>
<td>Dianne Miller</td>
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<td>Project Learning Tree</td>
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<tr>
<td><strong>Title:</strong></td>
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<td>Environmental Education Programs 5-8</td>
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<td>Hear about the latest environmental opportunities for 5-8 educators with materials and a drawing! All participants through the day will be eligible for a big prize!!</td>
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<tr>
<td>10:30-11:20 am</td>
<td>26</td>
<td>Dakota D</td>
<td>6-8</td>
<td>Jerry Opbroek &amp; Julie Olson</td>
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<td>Mobile Science Lab</td>
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<td><strong>Title:</strong></td>
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<td>Science Demos</td>
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<td>Great science demonstrations and activities to get middle school students excited about science.</td>
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<tr>
<td>10:30-11:20 am</td>
<td>27</td>
<td>Dakota F</td>
<td>K-12</td>
<td>Tammy J. Bauck &amp; Julie Mathiesen</td>
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<td>Three Rivers Special Services Coop/TIE</td>
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<tr>
<td><strong>Title:</strong></td>
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<td>Grade Level Assessment Project for K-12 Science &amp; Mathematics</td>
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<td>The SD DOE has started the development of grade level assessment closely aligned to the state content standards for K-12 Mathematics and Science (and Language Arts). Once developed, these assessments will be available for adminstration and scoring online. This session will provide an overview of the project and the progress made to date.</td>
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<tr>
<td>10:30-11:20 am</td>
<td>28</td>
<td>Dakota C</td>
<td>K-4</td>
<td>Brenda Danielson</td>
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<td>Scotland Elmentary</td>
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<td><strong>Title:</strong></td>
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<td>Reading, Writing and Arithmetic</td>
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<td>This session will use several pieces of children's literature as a springboard to math activities.</td>
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</tbody>
</table>
Friday 10:30 am
10:30-11:20 am Session: 29
Dakota H
Feb. 3, 2006
Grade Level: 9-C

Speaker(s): William Gripentrog
Watertown High School

Title: Monte, I'll Take Door 3
Ways to have students perform simulations using the graphing calculator to solve compound probability problems will be presented.

10:30-11:20 am Session: 30
Salon
Feb. 3, 2006
Grade Level: 9-12

Speaker(s): Dianne Miller
Project Learning Tree

Title: Environmental Education Programs 9-12
Hear about the latest environmental opportunities for 9-12 educators with materials and a drawing! All participants through the day will be eligible for a big prize!!.

Friday 12:00 Noon
12:00-1:00 pm Session: 31
Prairie A, B, C
Feb. 3, 2006
Grade Level:

Speaker(s): Chuck Holmstrom & Mark Farrand

LUNCH

Friday 1:30 pm
1:30-2:20 pm Session: 32
Prairie A
Feb. 3, 2006
Grade Level: K-12

Speaker(s): Tom Durkin, Featured Speaker
SD Space Grant Consortium

Title: Mars Mania
Put yourself aboard NASA's two exploration rovers, Spirit and Opportunity and be part of a two year science mission.

1:30-3:20 pm Session: 33
Prairie B
Feb. 3, 2006
Grade Level: 6-12

Speaker(s): Lori McNeal Reece,
Featured Speaker
Xtreme Xpress

Title: Meeting Math Standards in a More 'Musing Manner
Make middle & high school mathematics more fun with songs, jokes, wacky tricks—all directed to the secondary curriculum.

1:30-3:20 pm Session: 34
Prairie C
Feb. 3, 2006
Grade Level: K-4

Speaker(s): Richard J. Callan,
Featured Speaker
Bunker Hill Elementary

Title: Computation Activities That Bring Success!
Participants will be engaged in activities that will help students in grades K-4 develop computational success with basic facts. Integration of concepts will be presented in some activities. A handout will be given with the activities for teachers to take back and instantly use in the classroom.
### Friday 1:30 pm

#### 1:30-2:20 pm
Session: 35  
Dakota A  
Feb. 3, 2006  
Grade Level: 9-12

**Speaker(s):** Patrick E. Wenzl  
Holt, Rinehart & Winston

**Title:** Labs, Labs, and More Labs for High School Science

New labs for every high school science class you teach! Make learning fun with the latest labs for biology, chemistry, physical science and now forensic science. Door Prizes and Give Aways!

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#### 1:30-2:20 pm
Session: 36  
Dakota B  
Feb. 3, 2006  
Repeat of # 66  
Grade Level: 7-12

**Speaker(s):** Nichole Hoffman & Brad Arend  
Summit School

**Title:** Introducing Your Students to the TI-83+

Teach your students (and yourself!) how to use the TI-83+. Topics include finding frequently used keys, graphing equations, entering and sorting lists, solving systems of equations, finding x-intercepts, minimums & maximums, statistics, stat plots, linear regression, linking, and more.

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#### 1:30-2:20 pm
Session: 37  
Dakota C  
Feb. 3, 2006  
Grade Level: 10-C

**Speaker(s):** Andrew Shiers  
DSU

**Title:** Using Geometer's Sketchpad in Geometry and Algebra

Using Geometer's Sketchpad, we'll develop a geometric view of the conic sections by guided discovery and develop the graphs of conic sections from their algebraic definitions.

### Friday 1:30 pm

#### 1:30-2:20 pm
Session: 38  
Dakota D  
Feb. 3, 2006  
Grade Level: K-6

**Speaker(s):** Melissa L. Goorahoo  
Scott, Foresman Education

**Title:** Scaffolded Inquiry: Toys in Motion

This session uses toys to go through the steps of inquiry, starting with a directed inquiry activity, moving to guided inquiry, and finally to full inquiry. Participants will walk away with a complete and practical way to increase both the time spent on inquiry and an understanding of the steps of inquiry, and the importance of each in improving performance on standardized assessments. Materials will be provided.

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#### 1:30-3:20 pm
Session: 39  
Dakota E  
Feb. 3, 2006  
Grade Level: 6-8

**Speaker(s):** Christine Mikles  
CPM Educational Program

**Title:** Using Tiles and Games to Teach Math in Grades 6-8

Participants will be actively engaged in using manipulatives, playing games and doing activities to enhance the learning of math concepts. Games will be played that deal with integers, order of operation, graphing and writing.

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**Have you visited the exhibits?**

**Check out what the vendors have to share this year.**
**Friday**

**1:30 pm**

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

**Session: 40**

**Dakota F**

Repeat of # 98

Grade Level: K-C

Speaker(s): Rocky Von Eye

**Title:** Merlot: Multimedia Educational Resource for Learning and Online Teaching

Merlot is a free, web-based resource designed to help you find online teaching and learning materials quickly and easily. It is a continually growing catalog of online teaching tools and support resources that helps you enhance your instruction.

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

**Session: 41**

**Dakota G**

Grade Level: 6-8

Speaker(s): Diane K. Selchert & Sandra Jones

Sanborn Central/Wessington Springs

**Title:** Middle School Minds in Motion

Help students gain understanding, improve memory, and enhance health by using motion in your classroom. All activities are standards based.

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

**Session: 42**

**Dakota H**

Grade Level: K-6

Speaker(s): Nancy Barondeau

NSU

**Title:** K-W-L to T-H-C (and other science writing ideas)

The K-W-L framework has been modified to enhance the scientific learning environment plus other science writing ideas.

**Friday**

**1:30 pm**

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

**Session: 43**

**Symposium**

Feb. 3, 2006

Grade Level: 8-C

Speaker(s): Anne C. Thompson

SDSU

**Title:** "What'll We Need This For?"--A New Perspective

Some applications of algebra and statistics that relate to South Dakota jobs—based on consultations with professionals.

**1:30-4:20 pm**

**Session: 44**

**Salon**

Feb. 3, 2006

Grade Level: K-C

Speaker(s): Micheline Hickenbotham & Dianne Miller

BHSU & PLT

**Title:** Ethanol Plant Tour

Participants will travel by bus to the plant near Huron. This field trip may be taken alone or as part of the "Energy and Society" BHSU college course on Saturday.

**Friday**

**2:30 pm**

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

**Session: 45**

**Prairie A**

Feb. 3, 2006

Grade Level: 4-12

Speaker(s): Rita H. Barger,

Featured Speaker

University of Missouri-KC

**Title:** Ideas for Improving Scores on High Stakes Performance Tests

This session will provide classroom-tested methods for improving student scores on high stakes tests.
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<th>Speaker(s)</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30-3:20 pm</td>
<td>46</td>
<td>Dakota A</td>
<td>6-8</td>
<td>Patrick E. Wenzl Holt, Rinehart &amp; Winston</td>
<td><strong>Labs, Labs, and More Labs for Middle School Science</strong></td>
<td>Need some new ideas for labs that will grab your students' attention? Labs that are meaningful and fun? What about forensics labs? Come join us and add some spice to your classroom! Door Prizes and Give Aways!</td>
</tr>
<tr>
<td>2:30-3:20 pm</td>
<td>47</td>
<td>Dakota B</td>
<td>6-C</td>
<td>Marie Steckelberg USD</td>
<td><strong>J.A.M.E.S. Project</strong></td>
<td>Students collect, share and use real data collected on various bodies of water throughout the state of South Dakota.</td>
</tr>
<tr>
<td>2:30-4:20 pm</td>
<td>48</td>
<td>Dakota C</td>
<td>8-C</td>
<td>Joel Rauber &amp; Judy Vondruska SDSU</td>
<td><strong>Adding Vectors with MS-Word</strong></td>
<td>A workshop on the use of the MS-Word drawing package to perform vector addition. The drawing package enables one to graphically add vectors in the standard head-to-tail method and also obtain quantitative information in an easy to visualize manner. Some laptops will be provided, but you are encouraged to bring your own.</td>
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<tr>
<td>2:30-3:20 pm</td>
<td>49</td>
<td>Dakota D</td>
<td>9-12</td>
<td>Bob Schuh &amp; Cindy Kroon McIntosh/Montrose</td>
<td><strong>Applications on the TI-84</strong></td>
<td>Participants will have hands-on experience with TI-84 application programs. Calculators will be provided.</td>
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<tr>
<td>2:30-3:20 pm</td>
<td>50</td>
<td>Dakota F</td>
<td>9-12</td>
<td>Lisa R. Gustafson Holt, Rinehart &amp; Winston</td>
<td><strong>Function Transformations (70's Style)</strong></td>
<td>Active methods to informally assess student understanding of function transformations (Disco music is an added bonus)</td>
</tr>
<tr>
<td>2:30-3:20 pm</td>
<td>51</td>
<td>Dakota G</td>
<td>9-C</td>
<td>Gary W. Hagerty BHSU</td>
<td><strong>Self-Efficacy and the Choice of Freshman Math Course</strong></td>
<td>What is self-efficacy and how does it affect student choices regarding the math courses they register for as college freshman. This talk will provide high school teachers with a fresh way of looking at the attitudes and outcomes in a high school class. It will show appreciation for the efforts of the high school teacher.</td>
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<td>Time</td>
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<td>Speaker(s)</td>
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<tr>
<td>Friday</td>
<td>2:30 pm</td>
<td>Dakota H</td>
<td>K-2</td>
<td>Science Standards Committee</td>
<td>K-2 Science Standard Activities</td>
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<td>We will discuss the state standards and present activities that can be used to teach the standards.</td>
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<td>3:30 pm</td>
<td>Dakota A</td>
<td>6-12</td>
<td>Patrick E. Wenzl</td>
<td>From Chalkboard to Computer Screen: Technology that Motivates Your Students</td>
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<td>Holt, Rinehart &amp; Winston</td>
<td>The computer is a great motivator for students! Learn about new technology for your classroom that makes learning more exciting for students and helps you plan your lessons. From CD-ROMs to online textbooks, Holt can take you from chalkboard to computer screen.</td>
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<td>3:30 pm</td>
<td>Dakota D</td>
<td>7-C</td>
<td>K-Dog &amp; G-Trog</td>
<td>Mathematical Idol: Isn't That Special!</td>
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<td>(Withheld to protect them)</td>
<td>We've made fools of ourselves in front of our students for years. Now it's time to do it in front of our colleagues. The ability to carry a tune, sing or have rhythm is NOT a requirement for this session.</td>
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<tr>
<td>Thursday</td>
<td>3:30 pm</td>
<td>Dakota B</td>
<td>1-3</td>
<td>Brenda Danielson</td>
<td>Do the Math</td>
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<td>Scotland Elementary</td>
<td>Using math journals, manipulatives and problem solving strategies, you can get kids out of their seats and doing math. Some ideas on how to deal with the little ones who can't sit still.</td>
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<td>Thursday</td>
<td>4:30 pm</td>
<td>Dakota C</td>
<td>All</td>
<td>Chuck Holmstrom, President</td>
<td>SDCTM Business Meeting</td>
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<td>SDCTM</td>
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</table>
Friday  3:30 pm
4:30-5:30 pm  Session:  59
Dakota G  Feb. 3, 2006
Grade Level:  All
Speaker(s):  Mark Farrand, President
            SDSTA
Title:  SDSTA Business Meeting

Friday  5:00 pm
5:00-6:30 pm  Session:  60
Dakota A, B  Feb. 3, 2006
Reception
Sponsored by Holt, Rinehart & Winston

Friday  7:00 pm
7:00 pm  Session:  61
Prairie A, B, C  Feb. 3, 2006
Grade Level:  K-C
Speaker(s):  Sandy Doss, Featured Speaker
            Holbrook Travel
Title:  Education is About Experience!

BANQUET

Sandy Doss is a former science educator with an enthusiasm for educational and environmentally sensitive global travel that has led her on a grand journey of 17 countries within the last 10 years. Her love of biological content, educational methodology and field-based study workshops has guided her life’s work for the empowerment of both student and educator alike. Within today’s challenging culture of teaching, we must be reminded of the purity and fascination of our natural world. Education is about experience! Join Sandy for this dynamic reflection of how such experiences have molded each learner, young and old.

Saturday  7:00 am
7:00-8:00 am  Session:  62
Library  Feb. 4, 2006
Grade Level:  K-12
Speaker(s):  Diana McCann & Ramona
            Lundberg  
            Presidential Award Coordinators
Title:  Presidential Award Breakfast

All past and present awardees (math and science) are invited to join us for breakfast. Dutch treat???

Saturday  8:30 am
8:30-9:20 am  Session:  63
Library  Feb. 4, 2006
Grade Level:  K-12
Speaker(s):  Diana McCann  
            & Ramona Lundberg  
            Presidential Award Coordinators
Title:  Tips for Winning Money

Tips to filling out the Presidential Awards Application for Science and Math.

8:30-10:20 am  Session:  64
Prairie A  Feb. 4, 2006
Grade Level:  4-C
Speaker(s):  Rita H. Barger,  
            Featured Speaker  
            University of Missouri-KC
Title:  Mathematics Learning Styles: Adapting Your Teaching to Students' Styles

Based on brain research, this session will help you identify your own dominant style. We will also explore strategies for adapting your teaching to reach more students.
Saturday 8:30 am

8:30-9:20 am Session: 65
Prairie C Repeat of # 10
Feb. 4, 2006
Grade Level: K-6
Speaker(s): David A. Broadwell
Alcester-Hudson Schools
Title: From School Improvement to Blue Ribbon School Status
A teacher’s perspective on using the Everyday Mathematics program and how structured improvements contributed to our progress.

8:30-9:20 am Session: 66
Dakota A Repeat of # 36
Feb. 4, 2006
Grade Level: 7-12
Speaker(s): Nichole Hoffman & Brad Arend
Summit School
Title: Introducing Your Students to the TI-83+
Teach your students (and yourself!) how to use the TI-83+. Topics include finding frequently used keys, graphing equations, entering and sorting lists, solving systems of equations, finding x-intercepts, minimums & maximums, statistics, stat plots, linear regression, linking, and more.

8:30-10:20 am Session: 67
Dakota B 6-9
Feb. 4, 2006
Grade Level: 3-5
Speaker(s): Science Standards Committee
Title: 3-5 Science Standards Activities
We will discuss the state standards and present activities that can be used to teach the standards.

Saturday 8:30 am

8:30-10:20 am Session: 68
Dakota C 6-9
Feb. 4, 2006
Grade Level: 6-9
Speaker(s): Arnold Lund
Kadoka HS
Title: Metric Made Easy--OR What To Do When You Are ALL Alone in the World
A method to teach the metric system that eliminates common mistakes, misconceptions and frustrations.

8:30-10:20 am Session: 69
Dakota D Repeat of # 11
Feb. 4, 2006
Grade Level: 6-8
Speaker(s): Chris Larson
SDSU
Title: The Connected Mathematics Project for Middle School
Come find out about a middle school curriculum that is considered "exemplary" by the Department of Education.

8:30-9:20 am Session: 70
Dakota E 8-12
Feb. 4, 2006
Grade Level: 8-12
Speaker(s): Jeff Lukens & Bob Tower
Roosevelt HS/Texas Instruments
Title: Dueling Sensors
Data collection and analysis session using CBL2 and graphing calculators. Math/Science integration will be the focus.
Saturday 8:30 am

8:30-11:20 am  
Dakota F  
Feb. 4, 2006  
Grade Level: 5-8

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

Title: WILD about Mountain Lions

Come experience some hands-on activities about SD's largest predator. Participants will receive a copy of the new curriculum and activity guide.

8:30-9:20 am  
Dakota H  
Feb. 4, 2006  
Repeat of # 20  
Grade Level: 9-C

Speaker(s): Rocky Von Eye  
DWU

Title: What makes web-based materials usable for faculty and students?

Examples of geometry and algebra lesson plans that incorporate online resources from Merlot will be presented and shared with participants.

8:30-9:20 am  
Symposium  
Feb. 4, 2006  
Grade Level: K-12

Speaker(s): Roxie Albrecht & Brenda Danielson

Title: Number Sense Strand of the New Math Standards

This session provides an overview of the revised mathematics standards and one or more activities specific to the “strand of the hour.” Presenters are veterans of the standards writing team and/or several standards rollout workshops.

Saturday 8:30 am

8:30-11:20 am  
Salon  
Feb. 4, 2006  
Grade Level: K-12

Speaker(s): Dianne Miller, State PLT Coordinator & Micheline Hickenbotham, BHSU  
SD Project Learning Tree

Title: Energy, Society and Environment

This program helps students learn about energy and their relationship with energy and investigate the environmental issues related to energy's role in our society. In addition to hands-on activities, we integrate music; dance to enhance the study of energy issues. Earn a graduate credit by attending this session and completing the credit online and activities in your classroom.

Saturday 9:30 am

9:30-10:20 am  
Prairie B  
Feb. 4, 2006  
Repeat of # 14  
Grade Level: 6-12

Speaker(s): Lori McNeal Reece, Featured Speaker  
Xtreme Xpress

Title: Math-Lite--Formula Free

What do students REALLY have to commit to memory? Getting past our dependence on formulae!
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>9:30-11:20 am</td>
<td>Session 76</td>
<td>Prairie C</td>
<td>K-3</td>
<td>Richard J. Callan, Featured Speaker</td>
<td>Using Math Start Books to Enhance Your Mathematics Program</td>
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<td>Feb. 4, 2006</td>
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<td>Bunker Hill Elementary</td>
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<td>Stuart Murphy has written over 50 books using mathematics as a foundation for his books. Different core topics are used for each book. Participants will be engaged in activities using some of these books. A list of books and activities will be given.</td>
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<tr>
<td>9:30-10:20 am</td>
<td>Session 77</td>
<td>Dakota A</td>
<td>K-6</td>
<td>Mike Barondeau</td>
<td>BB Board Molecular Demonstrator for Science</td>
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<td>Feb. 4, 2006</td>
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<td>Edmunds Central School</td>
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<td>This ia a Make-It &amp; Take-It session where you construct an acrylic bb-board demonstrator for atomic/molecular motion demonstrations. This session is limited to 15 and will cost each participant $15 at the door for materials.</td>
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<tr>
<td>9:30-10:20 am</td>
<td>Session 78</td>
<td>Dakota E</td>
<td>8-12</td>
<td>Jeff Lukens &amp; Bob Tower</td>
<td>Can You Take the Pressure?</td>
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<td>Feb. 4, 2006</td>
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<td>Roosevelt HS/Texas Instruments</td>
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<td></td>
<td>Integrate your math and science curriculum using this easy but profound data collection activity!</td>
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<td>9:30-10:20 am</td>
<td>Session 79</td>
<td>Dakota G</td>
<td>6-12</td>
<td>Brant Miller &amp; Dr. Robb Winter</td>
<td>Repeat of # 5</td>
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<td>Feb. 4, 2006</td>
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<td>Douglas MS/SDSM&amp;T</td>
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<td></td>
<td>Title: Research Experience for Teachers (RET) at SDSM &amp; T</td>
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<td>Come get information about the premier professional development opportunity for 6th-12th grade science teachers in the region.</td>
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<tr>
<td>9:30-10:20 am</td>
<td>Session 80</td>
<td>Dakota H</td>
<td>7-8</td>
<td>Vanya Munce</td>
<td>Geometry Unit--String Art Designs</td>
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<td>Feb. 4, 2006</td>
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<td>Huron Middle School</td>
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<td>This is a geometry unit. Many activities lead up to the grand finale of creating a string art project.</td>
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<tr>
<td>9:30-10:20 am</td>
<td>Session 81</td>
<td>Symposium</td>
<td>K-12</td>
<td>Diana McCann &amp; Jean Gomer</td>
<td>Measurement Strand of the New Math Standards</td>
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<td>Feb. 4, 2006</td>
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<td>This session provides an overview of the revised mathematics standards and one or more activities specific to the &quot;strand of the hour.” Presenters are veterans of the standards writing team and/or several standards rollout workshops.</td>
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<td>Time</td>
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<td>Grade Level</td>
<td>Speaker(s)</td>
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<td>Saturday</td>
<td>10:30 am</td>
<td>Dakota A</td>
<td>6-12</td>
<td>Ryan J. Fier &amp; Christine A. Lingberg</td>
<td>Q &amp; A--Help Us Out</td>
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<td>A panel of future teachers would like to discuss first year teacher issues, concerns and preparation. Bring your thoughts.</td>
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<td>Have you heard about the BIG doorprize?</td>
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<td>Dakota D</td>
<td>4-6</td>
<td>Micheline Hickenbotham SDSU</td>
<td>Implications of Educational Research for the Classroom</td>
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<td>This session will cover broad ideas from educational research and focus on implications for the classroom. Research that is both teacher and learner-centered will be addressed.</td>
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<td>Dakota E</td>
<td>5-C</td>
<td>Judy A. Vondruska SDSU</td>
<td>The Life of a Drop of Water</td>
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<td>This hands-on water cycle allows students to create a poem or narrative as they discover that every drop of water does not move in a circle.</td>
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<td>Dakota G</td>
<td>7-C</td>
<td>Sheila E. McQuade O'Gorman HS</td>
<td>Geometry Activities that fit YOUR Budget</td>
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<td>We know that students remember what they DO so much better than what they hear. In this session I will give you some ideas for hands on activities that are easy and affordable. you'll even have some ready for Monday morning!</td>
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</table>
Saturday
10:30 am

10:30-11:20 am
Dakota H
Grade Level: 5-8

Speaker(s): Gary W. Hagerty
BHSU

Title: Not All Manhole Covers Are Round and Drilling Square Holes Is Not Cheap

We will look at a one day excursion into applications of geometry, which will look at Reuleaux Triangles and other curves of equal breadth which can be used to create manhole covers and other applications.

10:30-11:20 am
Symposium
Grade Level: K-12

Speaker(s): Chuck Holmstrom & Bill Gripentrog

Title: Statistics and Probability Strand of the New Math Standards

This session provides an overview of the revised mathematics standards and one or more activities specific to the "strand of the hour." Presenters are veterans of the standards writing team and/or several standards rollout workshops.

Saturday
12:00 NOON

12:00-1:00 pm
Prairie A & B
Grade Level: All

Speaker(s): Mark Farrand & Chuck Holmstrom

LUNCH

Saturday
1:00 pm

1:00-1:50 pm
Prairie A
Grade Level: 6-C

Speaker(s): Rita H. Barger,
Featured Speaker
University of Missouri-KC

Title: Dynamic Openings to Excite and Motivate

Get your students excited about the math they're learning. Learn how to grab your students' interest and make them want to learn more.

1:00-2:50 pm
Prairie B
Repeat of # 33
Grade Level: 6-12

Speaker(s): Lori McNeal Reece,
Featured Speaker
Xtreme Xpress

Title: Meeting Math Standards in a More 'Musing Manner

Make middle & high school mathematics more fun with songs, jokes, wacky tricks—all directed to the secondary curriculum.

1:00-2:50 pm
Prairie C
Grade Level: K-4

Speaker(s): Richard J. Callan,
Featured Speaker
Bunker Hill Elementary

Title: Using Children's Literature to Enhance Your Mathematics Program

Participants will be engaged in activities using children's literature as a springboard to teach different mathematical concepts. Old and new favorite books will be used in the workshop. A handout will be given with activities and books.
Saturday 1:00 pm

1:00-1:50 pm  
Dakota B  
Grade Level: K-5 & SPED  
Feb. 4, 2006

Speaker(s): Micheline Hickenbotham  
BHSU

Title: True/False The Meaning of the Equal Sign

Integrating arithmetic and algebra in K-5 classrooms help students recognize the connections between calculations and algebra. The first step is to understand equality. An approach to take back to your classroom

1:00-1:50 pm  
Dakota C  
Grade Level: 5-8  
Feb. 4, 2006

Speaker(s): Jeremiah Dibley & Donna Hardie  
pullUin Software

Title: Videogames in Science Class

Experience Creature Control: The Quest for Homeostasis, a science curriculum block that combines inquiry learning with a video game.

1:00-2:50 pm  
Dakota D  
Grade Level: 3-C  
Feb. 4, 2006

Speaker(s): Kenneth Graupmann  
White River Schools

Title: INQUIRY--Three Kinds of Hands-on Science

This activity will explore 3 different hands-on ways of approaching inquiry science.

Saturday 1:00 pm

1:00-1:50 pm  
Dakota E  
Grade Level: 8-12  
Feb. 4, 2006

Speaker(s): Jeff Lukens & Bob Tower  
Roosevelt HS/Texas Instruments

Title: River of Life

How much blood do you have in your body? Use a little math, a little science and a little (but powerful) calculator to figure it out!

1:00-1:50 pm  
Dakota F  
Grade Level: K-C  
Feb. 4, 2006

Repeat of # 40

Speaker(s): Rocky Von Eye  
DWU

Title: Merlot: Multimedia Educational Resource for Learning and Online Teaching

Merlot is a free, web-based resource designed to help you find online teaching and learning materials quickly and easily. It is a continually growing catalog of online teaching tools and support resources that help you enhance your instruction.

1:00-1:50 pm  
Dakota G  
Grade Level: 8-12  
Feb. 4, 2006

Speaker(s): Julie Olson  
Mitchell Senior High

Title: Exciting Environmental Science

Several activities for middle/high school environmental science classes.
Saturday 1:00 pm

1:00-2:50 pm  
Session: 100  
Dakota H  
Feb. 4, 2006  
Repeat of # 16  
Grade Level: 9-C  
Speaker(s): Michael T. Catalano  
DWU  
Title: College Algebra in Context: Some examples from an ongoing NSF Project

This session will provide an overview of and examples from an ongoing NSF project which includes the development of a data-driven college algebra course incorporating examples related to energy, hunger, poverty, and other social issues. Examples can be adapted for use in a variety of courses, including high school algebra and FST courses.

2:00-2:50 pm  
Session: 103  
Dakota A  
Feb. 4, 2006  
Grade Level: 6-C  
Speaker(s): Andy Johnson  
BHSU CAMSE  
Title: Making Sense of Gas Prices-An investigation into oil discovery, production, economics, and society

It's time to start thinking about reasons why fuel prices are rising. I will report on the results of independent (relatively unbiased) studies of oil discovery and production data and attempt to summarize the importance and timing of the upcoming worldwide decline in oil and gas production. References and resources will be given to attendees.

Saturday 1:00 pm

1:00-1:50 pm  
Session: 101  
Symposium  
Feb. 4, 2006  
Grade Level: K-12  
Speaker(s): Jean Gomer & Diana McCann  
Title: Geometry Strand of the New Math Standards

This session provides an overview of the revised mathematics standards and one or more activities specific to the “strand of the hour.” Presenters are veterans of the standards writing team and/or several standards rollout workshops.

2:00-2:50 pm  
Session: 102  
Salon  
Feb. 4, 2006  
Grade Level: K-C  
Speaker(s): Janet Briggs  
BHSU  
Title: Enhancing Science Through Expository Writing

How can you get your students to tell you what they are really thinking? How can you get them to think deeply about science concepts? Learn how to help your students develop a deeper understanding of science concepts through the writing process, and to display that knowledge using multiple methods. This presentation will provide guidance in the development of writing prompts for science investigations.
Saturday 1:00 pm

2:00-2:50 pm
Dakota B
Grade Level: K-6

Speaker(s): Peg Lindberg
Vista View Elementary, Burnsville, MN

Title: Games--Creating Teachable Moments
Learn how to use math games as teaching tools. Share before the game and after the game teaching tips that maximize the learning experience.

Saturday 2:00 pm

2:00-2:50 pm
Dakota E
Grade Level: 8-12

Speaker(s): Cortney Haugen
Tripp-Delmont Schools

Title: Layers Beyond the Boring Text
A brief overview of Layered Curriculum and how I have used it to reach all levels of learners--includes example units.

Saturday 3:15 pm

3:15---
Dakota F
Grade Level: K-2

Speaker(s): Marcy & Mark Farrand
Rapid City School District

Title: Inquiry Learning for Elementary Educators
We will show you several easy to set up and effective lab activities to inspire your young scientists.

Saturday 2:00 pm

2:00-2:50 pm
Dakota G
Grade Level: 9-12

Speaker(s): Julie Olson
Mitchell Senior High

Title: Fantastic Physiology
Guaranteed to come away with good activities for physiology and biology classes.

2:00-2:50 pm
Symposium
Grade Level: K-12

Speaker(s): Bill Gripentrog & Chuck Holmstrom

Title: Algebra Strand of the New Math Standards
This session provides an overview of the revised mathematics standards and one or more activities specific to the “strand of the hour.” Presenters are veterans of the standards writing team and/or several standards rollout workshops.

Saturday 3:15 pm

3:15---
Board Room
Grade Level:

Speaker(s): Joint Conference Board

Title: Joint Board Meeting