**Program for 2006 Joint Conference**

<table>
<thead>
<tr>
<th>Thursday</th>
<th>7 pm</th>
<th>Friday</th>
<th>8:30 am</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7:00-9:00 pm</strong></td>
<td>Session: 1</td>
<td><strong>8:30-9:20 am</strong></td>
<td>Session: 4</td>
</tr>
<tr>
<td>Grade Level: K-C</td>
<td>Speaker(s): Chuck Holmstrom, Facilitator</td>
<td>Grade Level: 9-12</td>
<td>Speaker(s): Lindsey L. Hins</td>
</tr>
<tr>
<td></td>
<td>SDCTM President</td>
<td></td>
<td>Huron High School</td>
</tr>
<tr>
<td><strong>Title:</strong> Math Sharing Session</td>
<td><strong>Title:</strong> Math Activity with the TI-84 Calculator and CBR</td>
<td><strong>Title:</strong> Research Experience for Teachers (RET) at SDSM &amp; T</td>
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<tr>
<td></td>
<td>Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity or lesson.</td>
<td>This session will provide participants with TI-84 &amp; CBR math activity and additional TI-84 calculator tips.</td>
<td>Come get information about the premier professional development opportunity for 6th-12th grade science teachers in the region.</td>
</tr>
<tr>
<td>7:00-9:00 pm</td>
<td>Session: 2</td>
<td><strong>8:30-9:20 am</strong></td>
<td>Session: 5</td>
</tr>
<tr>
<td>Grade Level: K-C</td>
<td>Speaker(s): Mark Farrand, Facilitator</td>
<td>Grade Level: 6-12</td>
<td>Repeat of # 79</td>
</tr>
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<td></td>
<td>SDSTA President</td>
<td></td>
<td>Speaker(s): Brant Miller &amp; Dr. Robb Winter</td>
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<tr>
<td></td>
<td><strong>Title:</strong> Science Sharing Session</td>
<td></td>
<td>Douglas MS/SDSM&amp;T</td>
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<td></td>
<td>Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity or lesson.</td>
<td><strong>Title:</strong> Research Experience for Teachers (RET) at SDSM &amp; T</td>
<td><strong>Title:</strong> Evolution of Evolution in Science</td>
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<tr>
<td><strong>Friday</strong></td>
<td><strong>8:30 am</strong></td>
<td><strong>8:30-9:20 am</strong></td>
<td><strong>8:30-9:20 am</strong></td>
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<tr>
<td><strong>8:30-9:20 am</strong></td>
<td><strong>Session:</strong> 3</td>
<td><strong>Session:</strong> 4</td>
<td><strong>Session:</strong> 6</td>
</tr>
<tr>
<td>Grade Level: 5-10</td>
<td>Speaker(s): Cheryl D. Thaler</td>
<td>Grade Level: 6-12</td>
<td>Speaker(s): Nicole M. Keegan</td>
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<td></td>
<td>Wagner Community School</td>
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<td>Dakota Middle School, Rapid City</td>
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<tr>
<td><strong>Title:</strong> Middle School Minds in Motion</td>
<td><strong>Title:</strong> Research Experience for Teachers (RET) at SDSM &amp; T</td>
<td><strong>Title:</strong> Evolution of Evolution in Science</td>
<td>A look at evolution in the science classroom using research and present day evolution issues.</td>
</tr>
</tbody>
</table>
Friday 8:30 am

8:30-9:20 am  Session: 7
Dakota D  Feb. 3, 2006
Grade Level: K-12

Speaker(s): Dawn Wirth, Current Presidential Awardee
Hurley School

Title: Experience Japan-Free

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.

8:30-9:20 am  Session: 8
Dakota E  Feb. 3, 2006
Grade Level: 9-12

Speaker(s): Christine Mikles
CPM Educational Program

Title: Proof! Finally a Logical Approach!

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.

Friday 8:30 am

8:30-9:20 am  Session: 9
Dakota F  Feb. 3, 2006
Grade Level: 6-8

Speaker(s): Lisa R. Gustafson
Holt, Rinehart & Winston

Title: Game Time

Fun, engaging problem solving games for the middle school classroom.

Friday 8:30 am

8:30-9:20 am  Session: 10
Dakota G  Feb. 3, 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 how using the Everyday Mathematics program and structured improvements contributed to our progress.

8:30-10:20 am  Session: 11
Dakota H  Feb. 3, 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: 12
Salon  Feb. 3, 2006
Grade Level: K-4

Speaker(s): Dianne Miller
Project Learning Tree

Title: Environmental Education Programs K-4

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!
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.

Title: Math-Lite--Formula Free

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

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.

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.

Next Year's Conference is February 1, 2, & 3, 2007
<table>
<thead>
<tr>
<th>Session: 17</th>
<th>9:30-10:20 am</th>
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<tbody>
<tr>
<td>Dakota B</td>
<td>Feb. 3, 2006</td>
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<tr>
<td>Grade Level: 6-12</td>
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<tr>
<td>Speaker(s): Ramona Lundberg &amp; Sally Stoll Deuel Schools</td>
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<tr>
<td>Title: <strong>Resources from the American Physiological Society (APS)</strong></td>
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<tr>
<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>
<th>Session: 18</th>
<th>9:30-10:20 am</th>
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<tr>
<td>Dakota C</td>
<td>Feb. 3, 2006</td>
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<tr>
<td>Grade Level: 8-C</td>
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<tr>
<td>Speaker(s): Larry Browning &amp; Judy Vondruska SDSU</td>
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<tr>
<td>Title: <strong>Web Cams for Astronomy</strong></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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<tr>
<th>Session: 19</th>
<th>9:30-11:20 am</th>
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<tr>
<td>Dakota E</td>
<td>Feb. 3, 2006</td>
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<tr>
<td>Grade Level: 9-12</td>
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<tr>
<td>Speaker(s): Lonnie A. Bellman CPM Education Program</td>
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<tr>
<td>Title: <strong>Exploring a Standards-Based, Student-Centered Curriculum: CPM, Grades 6-12</strong></td>
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<tr>
<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>
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<th>Session: 20</th>
<th>9:30-10:20 am</th>
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<tr>
<td>Dakota F</td>
<td>Feb. 3, 2006</td>
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<tr>
<td>Grade Level: 9-C</td>
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<tr>
<td>Speaker(s): John Brown, Adam Tyhurst, Ben Irlbeck DWU</td>
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<tr>
<td>Title: <strong>What makes web-based materials usable for faculty and students?</strong></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>
<th>Session: 21</th>
<th>9:30-10:20 am</th>
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<tr>
<td>Dakota G</td>
<td>Feb. 3, 2006</td>
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<tr>
<td>Grade Level: K-4</td>
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<tr>
<td>Speaker(s): Carol Den Otter University of Sioux Falls</td>
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<tr>
<td>Title: <strong>Number Sense: What It Is, Why It Is Important and How to Teach It</strong></td>
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<tr>
<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>
<th>Session: 22</th>
<th>9:30-11:20 am</th>
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<tbody>
<tr>
<td>Symposium</td>
<td>Feb. 3, 2006</td>
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<tr>
<td>Grade Level: 9-C</td>
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<tr>
<td>Speaker(s): Dan Van Peurseum, Facilitator USD</td>
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<tr>
<td>Title: <strong>College Forum: Transition from High School to College Mathematics</strong></td>
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<tr>
<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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<tr>
<td>Time</td>
<td>Session</td>
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</table>
| 9:30 am      | 23      | Salon    | 5-8         | Dianne Miller  
Project Learning Tree                                                     |
| 9:30-10:20 am|         |          |             |                                                                           |
|              |         |          |             | **Title:** Environmental Education Programs 5-8                          |
|              |         |          |             | 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!! |
| 10:30 am     | 24      | Dakota B | 5-10        | Steven M. Rokusek  
SD Public Broadcasting                                                      |
| 10:30-11:20 am|       |          |             |                                                                           |
|              |         |          |             | **Title:** The Basics of Bernoulli's Principle                             |
|              |         |          |             | This presentation will cover the basics of Bernoulli’s Principle using resources from South Dakota Public Broadcasting. Classic demonstrations and explanations will be covered during the presentation. |
| 10:30-11:20 am|       |          |             |                                                                           |
|              |         |          |             | **Title:** Catapults and Video Analysis                                    |
|              |         |          |             | Participants will build their own spoon and popsicle stick catapult and use video analysis to study it. |
| 10:30 am     | 26      | Dakota D | 6-8         | Jerry Opbroek & Julie Olson  
Mobile Science Lab                                                           |
| 10:30-11:20 am|       |          |             |                                                                           |
|              |         |          |             | **Title:** Science Demos                                                   |
|              |         |          |             | Great science demonstrations and activities to get middle school students excited about science. |
| 10:30-11:20 am|       |          |             |                                                                           |
|              |         |          |             | **Title:** Grade Level Assessment Project for K-12 Science & Mathematics  |
|              |         |          |             | 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 adminsitration and scoring online. This session will provide an overview of the project and the progress made to date. |
| 10:30-11:20 am|       |          |             |                                                                           |
|              |         |          |             | **Title:** Reading, Writing and Arithmetic                                 |
|              |         |          |             | This session will use several pieces of children's literature as a springboard to math activities. |
Friday 10:30 am

10:30-11:20 am  Session: 29  Feb. 3, 2006
Dakota H
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.

Friday 1:30 pm

1:30-2:20 pm  Session: 32  Feb. 3, 2006
Prairie A
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.

Friday 12:00 Noon

12:00-1:00 pm  Session: 31  Feb. 3, 2006
Prairie A, B, C
Grade Level:  K-4

Speaker(s): Chuck Holmstrom & Mark Farrand

LUNCH

Friday 1:30 pm

1:30-3:20 pm  Session: 33  Feb. 3, 2006
Prairie B
Repeat of # 92
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.

Friday 1:30 pm

1:30-3:20 pm  Session: 34  Feb. 3, 2006
Prairie C
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

1:30-2:20 pm  
Dakota A  
Grade Level: 9-12

Session: 35  
Feb. 3, 2006

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!

1:30-2:20 pm  
Dakota B  
Grade Level: 7-12

Session: 36  
Feb. 3, 2006

Repeat of # 66

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.

1:30-2:20 pm  
Dakota C  
Grade Level: 10-C

Session: 37  
Feb. 3, 2006

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

1:30-2:20 pm  
Dakota D  
Grade Level: K-6

Session: 38  
Feb. 3, 2006

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.

1:30-3:20 pm  
Dakota E  
Grade Level: 6-8

Session: 39  
Feb. 3, 2006

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.

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  Feb. 3, 2006
Repeat of # 98
Grade Level: K-C
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 helps you enhance your instruction.

1:30-2:20 pm  Session: 41
Dakota G  Feb. 3, 2006
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  Feb. 3, 2006
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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
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</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</td>
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<td></td>
<td>Holt, Rinehart &amp; Winston</td>
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<tr>
<td>Title</td>
<td>Labs, Labs, and More Labs for Middle School Science</td>
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<tr>
<td>Description</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>
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<tr>
<td>2:30-3:20 pm</td>
<td>47</td>
<td>Dakota B</td>
<td>6-C</td>
<td>Marie Steckelberg</td>
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<td>USD</td>
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<tr>
<td>Title</td>
<td>J.A.M.E.S. Project</td>
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<td>Description</td>
<td>Students collect, share and use real data collected on various bodies of water throughout the state of South Dakota.</td>
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<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</td>
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<td>SDSU</td>
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<tr>
<td>Title</td>
<td>Adding Vectors with MS-Word</td>
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<tr>
<td>Description</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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<td>2:30-3:20 pm</td>
<td>49</td>
<td>Dakota D</td>
<td>9-12</td>
<td>Bob Schuh &amp; Cindy Kroon</td>
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<td>McIntosh/Montrose</td>
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<tr>
<td>Title</td>
<td>Applications on the TI-84</td>
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<tr>
<td>Description</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</td>
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<td></td>
<td>Holt, Rinehart &amp; Winston</td>
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<tr>
<td>Title</td>
<td>Function Transformations (70's Style)</td>
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<td>Description</td>
<td>Active methods to informally assess student understanding of function transformations (Disco music is an added bonus)</td>
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<tr>
<td>2:30-3:20 pm</td>
<td>51</td>
<td>Dakota G</td>
<td>9-C</td>
<td>Gary W. Hagerty</td>
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<td>BHSU</td>
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<tr>
<td>Title</td>
<td>Self-Efficacy and the Choice of Freshman Math Course</td>
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<td>Description</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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Friday  

2:30-4:20 pm  
Session: 52  
Dakota H  
Feb. 3, 2006  
Grade Level: K-2  

Speaker(s): Science Standards Committee  

Title: K-2 Science Standard Activities  
We will discuss the state standards and present activities that can be used to teach the standards.

3:30-4:20 pm  
Session: 53  
Dakota A  
Feb. 3, 2006  
Grade Level: 6-12  

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

Title: From Chalkboard to Computer Screen: Technology that Motivates Your Students  
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.

3:30-4:20 pm  
Session: 55  
Dakota D  
Feb. 3, 2006  
Grade Level: 7-C  

Speaker(s): K-Dog & G-Trog  
(Withheld to protect them)  

Title: Mathematical Idol: Isn't That Special!  
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.

Friday  

3:30-4:20 pm  
Session: 56  
Dakota E  
Feb. 3, 2006  
Grade Level: 9-12  

Speaker(s): Lonnie A. Bellman  
CPM Education Program  

Title: Using the Area Model to Teach Multiplying and Dividing of Polynomials  
Participants will use the area model to look at dimensions and area of a rectangle, Algebra Tiles to multiply and factor polynomials; and a graphical organizer called a generic rectangle to show going from the abstract to the concrete. Division of polynomials will be shown using this model.

3:30-4:20 pm  
Session: 57  
Dakota G  
Feb. 3, 2006  
Grade Level: K-4  

Speaker(s): Brenda Danielson  
Scotland Elementary  

Title: Do the Math  
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.

Friday  

4:30-5:30 pm  
Session: 58  
Dakota C  
Feb. 3, 2006  
Grade Level: All  

Speaker(s): Chuck Holmstrom, President  
SDCTM  

Title: SDCTM Business Meeting

12
Friday 3:30 pm
4:30-5:30 pm  Session: 59  Feb. 3, 2006
Dakota G
Grade Level: All

Speaker(s): Mark Farrand, President  SDSTA

Title: SDSTA Business Meeting

Friday 5:00 pm
5:00-6:30 pm  Session: 60  Feb. 3, 2006
Dakota A, B

Receiver
Sponsored by Holt, Rinehart & Winston

Friday 7:00 pm
7:00 pm  Session: 61  Feb. 3, 2006
Prairie A, B, C
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  Feb. 4, 2006
Library
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  Feb. 4, 2006
Library
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  Feb. 4, 2006
Prairie A
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:20 am</td>
<td>65</td>
<td>Prairie C</td>
<td>K-6</td>
<td>David A. Broadwell</td>
<td>Repeat of # 10</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Alcester-Hudson Schools</td>
<td>From School Improvement to Blue Ribbon School Status</td>
<td>A teacher’s perspective on using the Everyday Mathematics program and how structured improvements contributed to our progress.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>66</td>
<td>Dakota A</td>
<td>7-12</td>
<td>Nichole Hoffman &amp; Brad Arend</td>
<td>Repeat of # 36</td>
<td></td>
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<td>Summit School</td>
<td>Introducing Your Students to the TI-83+</td>
<td>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 &amp; maximums, statistics, stat plots, linear regression, linking, and more.</td>
</tr>
<tr>
<td>8:30-10:20 am</td>
<td>67</td>
<td>Dakota B</td>
<td>3-5</td>
<td>Science Standards Committee</td>
<td>3-5 Science Standards Activities</td>
<td>We will discuss the state standards and present activities that can be used to teach the standards.</td>
</tr>
<tr>
<td>8:30-10:20 am</td>
<td>68</td>
<td>Dakota C</td>
<td>6-9</td>
<td>Arnold Lund</td>
<td>Metric Made Easy--OR What To Do When You Are ALL Alone in the World</td>
<td>A method to teach the metric system that eliminates common mistakes, misconceptions and frustrations.</td>
</tr>
<tr>
<td>8:30-10:20 am</td>
<td>69</td>
<td>Dakota D</td>
<td>6-8</td>
<td>Chris Larson</td>
<td>The Connected Mathematics Project for Middle School</td>
<td>Come find out about a middle school curriculum that is considered &quot;exemplary&quot; by the Department of Education.</td>
</tr>
<tr>
<td>8:30-9:20 am</td>
<td>70</td>
<td>Dakota E</td>
<td>8-12</td>
<td>Jeff Lukens &amp; Bob Tower</td>
<td>Dueling Sensors</td>
<td>Data collection and analysis session using CBL2 and graphing calculators. Math/Science integration will be the focus.</td>
</tr>
</tbody>
</table>

**February 4, 2006**
Saturday 8:30 am
8:30-11:20 am  Session: 71  
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  Session: 72  
Dakota H  Feb. 4, 2006  
Repeat of # 20  
Grade Level: 9-C  

Speaker(s): John Brown, Adam Tyhurst, Ben Irlbeck  
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  Session: 73  
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  Session: 74  
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.

9:30-10:20 am  Session: 75  
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>
</tr>
</thead>
<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>
</tr>
<tr>
<td>9:30-10:20 am</td>
<td>Session: 77</td>
<td>Dakota A</td>
<td>K-C</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></td>
<td>This is 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>
</tr>
<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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<tr>
<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>Research Experience for Teachers (RET) at SDSM &amp; T</td>
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<tr>
<td></td>
<td>Feb. 4, 2006</td>
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<td>Douglas MS/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>
</tr>
<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></td>
<td>This is a geometry unit. Many activities lead up to the grand finale of creating a string art project.</td>
</tr>
<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.&quot; Presenters are veterans of the standards writing team and/or several standards rollout workshops.</td>
</tr>
</tbody>
</table>
### Saturday 10:30 am

<table>
<thead>
<tr>
<th>Session: 82</th>
<th>Dakota A</th>
<th>Feb. 4, 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Level: 6-12</td>
<td></td>
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</tr>
</tbody>
</table>

**Speaker(s):** Ryan J. Fier & Christine A. Lingberg  
SDSU

**Title:** Q & A--Help Us Out

A panel of future teachers would like to discuss first year teacher issues, concerns and preparation. Bring your thoughts.

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<table>
<thead>
<tr>
<th>Session: 84</th>
<th>Dakota C</th>
<th>Feb. 4, 2006</th>
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</thead>
<tbody>
<tr>
<td>Grade Level: K-C</td>
<td></td>
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</tbody>
</table>

**Speaker(s):** Bobbie A. Jenner  
Roots & Shoots Bramble Park Zoo

**Title:** Roots & Shoots

Roots & Shoots is an environmental humanitarian service learning program for all ages. Roots & Shoots offers curriculum matched with national standards.

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<table>
<thead>
<tr>
<th>Session: 85</th>
<th>Dakota D</th>
<th>Feb. 4, 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Level: 4-6</td>
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</tbody>
</table>

**Speaker(s):** Micheline Hickenbotham  
BHSU

**Title:** The Life of a Drop of Water

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.

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<table>
<thead>
<tr>
<th>Session: 86</th>
<th>Dakota E</th>
<th>Feb. 4, 2006</th>
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</thead>
<tbody>
<tr>
<td>Grade Level: 5-C</td>
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</table>

**Speaker(s):** Judy A. Vondruska  
SDSU

**Title:** Implications of Educational Research for the Classroom

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.

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<table>
<thead>
<tr>
<th>Session: 87</th>
<th>Dakota G</th>
<th>Feb. 4, 2006</th>
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</thead>
<tbody>
<tr>
<td>Grade Level: 7-C</td>
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</table>

**Speaker(s):** Sheila E. McQuade  
O'Gorman HS

**Title:** Geometry Activities that fit YOUR Budget

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!
<table>
<thead>
<tr>
<th>Saturday</th>
<th>10:30 am</th>
</tr>
</thead>
</table>
| 10:30-11:20 am | Session: 88  
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. |

<table>
<thead>
<tr>
<th>Saturday</th>
<th>1:00 pm</th>
</tr>
</thead>
</table>
| 1:00-1:50 pm | Session: 91  
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. |

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<tr>
<th>Saturday</th>
<th>12:00 NOON</th>
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</table>
| 12:00-1:00 pm | Session: 90  
Prairie A & B  
Grade Level: All  
Speaker(s): Mark Farrand & Chuck Holmstrom |
| LUNCH |
### Saturday 1:00 pm

**1:00-1:50 pm**  
**Session: 94**  
**Dakota B**  
**Grade Level:** K-5 & SPED  
**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**  
**Session: 95**  
**Dakota C**  
**Grade Level:** 5-8  
**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**  
**Session: 96**  
**Dakota D**  
**Grade Level:** 3-C  
**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**  
**Session: 97**  
**Dakota E**  
**Grade Level:** 8-12  
**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**  
**Session: 98**  
**Dakota F**  
**Grade Level:** K-C  
**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.

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**1:00-1:50 pm**  
**Session: 99**  
**Dakota G**  
**Grade Level:** 8-12  
**Speaker(s):** Julie Olson  
**Mitchell Senior High**  
**Title:** Exciting Environmental Science  
Several activities for middle/high school environmental science classes.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Grade Level</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00-2:50 pm</td>
<td>100</td>
<td>Dakota H</td>
<td>9-C</td>
<td>Michael T. Catalano</td>
<td>Repeat of # 16</td>
</tr>
<tr>
<td>1:00-1:50 pm</td>
<td>101</td>
<td>Symposium</td>
<td>K-12</td>
<td>Jean Gomer &amp; Diana McCann</td>
<td>Geometry Strand of the New Math Standards</td>
</tr>
<tr>
<td>2:00-2:50 pm</td>
<td>103</td>
<td>Dakota A</td>
<td>6-C</td>
<td>Andy Johnson</td>
<td>Making Sense of Gas Prices-An investigation into oil discovery, production, economics, and society</td>
</tr>
</tbody>
</table>

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.

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.

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

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---  
Board Room  
Grade Level:  

Speaker(s): Joint Conference Board  

Title: Joint Board Meeting