

# Program for 2006 Joint Conference

**Thursday**

**7 pm**

**7:00-9:00 pm**  
**Dakota A**  
**Grade Level: K-C**

**Session: 1**  
**Feb. 2, 2006**

**Speaker(s):** Chuck Holmstrom, Facilitator  
SDCTM President

**Title: 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**  
**Dakota B**  
**Grade Level: K-C**

**Session: 2**  
**Feb. 2, 2006**

**Speaker(s):** Mark Farrand, Facilitator  
SDSTA President

**Title: Science 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**

**8:30-9:20 am**  
**Prairie A**  
**Grade Level: 5-10**

**Session: 3**  
**Feb. 3, 2006**

**Speaker(s):** Cheryl D. Thaler  
Wagner Community School

**Title: Middle School Minds in Motion**

Enhance student learning through movement with over 100 activities. Minds in Motion will energize your classroom, enhance motor skills and improve learning environments.

**Friday**

**8:30 am**

**8:30-9:20 am**  
**Dakota A**  
**Grade Level: 9-12**

**Session: 4**  
**Feb. 3, 2006**

**Speaker(s):** Lindsey L. Hins  
Huron High School

**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.

**8:30-9:20 am**  
**Dakota B**

**Session: 5**  
**Feb. 3, 2006**

**Repeat of # 79**

**Grade Level: 6-12**

**Speaker(s):** Brant Miller & Dr. Robb Winter  
Douglas MS/SDSM&T

**Title: Research Experience for Teachers (RET) at SDSM & T**

Come get information about the premier professional development opportunity for 6<sup>th</sup>-12<sup>th</sup> grade science teachers in the region.

**8:30-9:20 am**  
**Dakota C**  
**Grade Level: 6-12**

**Session: 6**  
**Feb. 3, 2006**

**Speaker(s):** Nicole M. Keegan  
Dakota Middle School, Rapid City

**Title: Evolution of Evolution in Science**

A look at evolution in the science classroom using research and present day evolution issues.

**Friday**

**8:30 am**

**8:30-9:20 am**

**Dakota D**

**Grade Level: K-12**

**Session: 7**

**Feb. 3, 2006**

**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**

**Dakota E**

**Grade Level: 9-12**

**Session: 8**

**Feb. 3, 2006**

**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.

**8:30-9:20 am**

**Dakota F**

**Grade Level: 6-8**

**Session: 9**

**Feb. 3, 2006**

**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**

**Dakota G**

**Grade Level: K-6**

**Session: 10**

**Feb. 3, 2006**

**Repeat of #65**

**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**

**Dakota H**

**Grade Level: 6-8**

**Session: 11**

**Feb. 3, 2006**

**Repeat of # 69**

**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**

**Salon**

**Grade Level: K-4**

**Session: 12**

**Feb. 3, 2006**

**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!

**Friday**

**9:30 am**

**9:30-11:20 am**

**Prairie A**

**Grade Level: K-12**

**Session: 13**

**Feb. 3, 2006**

**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**

**Grade Level: 6-C**

**Repeat of # 75**

**Session: 14**

**Feb. 3, 2006**

**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**

**Friday**

**9:30 am**

**9:30-10:20 am**

**Prairie C**

**Grade Level: K-4**

**Session: 15**

**Feb. 3, 2006**

**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**

**Grade Level: 9-C**

**Repeat of # 100**

**Session: 16**

**Feb. 3, 2006**

**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.

**Friday**

**9:30 am**

**9:30-10:20 am**

**Dakota B**

**Grade Level: 6-12**

**Session: 17**

**Feb. 3, 2006**

**Speaker(s):** Ramona Lundberg & Sally Stoll  
Deuel Schools

**Title: Resources from the American Physiological Society (APS)**

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.

**9:30-10:20 am**

**Dakota C**

**Grade Level: 8-C**

**Session: 18**

**Feb. 3, 2006**

**Speaker(s):** Larry Browning & Judy Vondruska  
SDSU

**Title: Web Cams for Astronomy**

We will discuss how to modify a WebCam for use with a telescope. Software and plans will be available.

**9:30-11:20 am**

**Dakota E**

**Grade Level: 9-12**

**Session: 19**

**Feb. 3, 2006**

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

**Title: Exploring a Standards-Based, Student-Centered Curriculum: CPM, Grades 6-12**

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.

**Friday**

**9:30 am**

**9:30-10:20 am**

**Dakota F**

**Grade Level: 9-C**

**Session: 20**

**Feb. 3, 2006**

**Repeat of # 72**

**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.

**9:30-10:20 am**

**Dakota G**

**Grade Level: K-4**

**Session: 21**

**Feb. 3, 2006**

**Speaker(s):** Carol Den Otter  
University of Sioux Falls

**Title: Number Sense: What It Is, Why It Is Important and How to Teach It**

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.

**9:30-11:20 am**

**Symposium**

**Grade Level: 9-C**

**Session: 22**

**Feb. 3, 2006**

**Speaker(s):** Dan Van Peurseum, Facilitator  
USD

**Title: College Forum: Transition from High School to College Mathematics**

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.

**Friday**

**9:30 am**

**9:30-10:20 am**  
Salon  
Grade Level: 5-8

Session: 23  
Feb. 3, 2006

Speaker(s): Dianne Miller  
Project Learning Tree

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!!

**Friday**

**10:30 am**

**10:30-11:20 am**  
Dakota B  
Grade Level: 5-10

Session: 24  
Feb. 3, 2006

Speaker(s): Steven M. Rokusek  
SD Public Broadcasting

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**  
Dakota C  
Grade Level: K-C

Session: 25  
Feb. 3, 2006

Speaker(s): Larry Browning  
SDSU

Title: **Catapults and Video Analysis**

Participants will build their own spoon and popsicle stick catapult and use video analysis to study it.

**Friday**

**10:30 am**

**10:30-11:20 am**  
Dakota D  
Grade Level: 6-8

Session: 26  
Feb. 3, 2006

Speaker(s): Jerry Opbroek & Julie Olson  
Mobile Science Lab

Title: **Science Demos**

Great science demonstrations and activities to get middle school students excited about science.

**10:30-11:20 am**  
Dakota F  
Grade Level: K-12

Session: 27  
Feb. 3, 2006

Speaker(s): Tammy J. Bauck & Julie Mathiesen  
Three Rivers Special Services Coop/TIE

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 administration and scoring online. This session will provide an overview of the project and the progress made to date.

**10:30-11:20 am**  
Dakota C  
Grade Level: K-4

Session: 28  
Feb. 3, 2006

Speaker(s): Brenda Danielson  
Scotland Elementary

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  
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  
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.

**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**

**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 pm**

**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**

**Dakota F**

**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**

**Dakota G**

**Grade Level: 6-8**

**Session: 41**

**Feb. 3, 2006**

**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**

**Dakota H**

**Grade Level: K-6**

**Session: 42**

**Feb. 3, 2006**

**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**

**Symposium**

**Grade Level: 8-C**

**Session: 43**

**Feb. 3, 2006**

**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**

**Salon**

**Grade Level: K-C**

**Session: 44**

**Feb. 3, 2006**

**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**

**Prairie A**

**Grade Level: 4-12**

**Session: 45**

**Feb. 3, 2006**

**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.



**Friday**

**2:30 pm**

**2:30-3:20 pm**

**Dakota A**

**Grade Level: 6-8**

**Session: 46**

**Feb. 3, 2006**

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

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

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!

**2:30-3:20 pm**

**Dakota B**

**Grade Level: 6-C**

**Session: 47**

**Feb. 3, 2006**

**Speaker(s):** Marie Steckelberg  
USD

**Title: J.A.M.E.S. Project**

Students collect, share and use real data collected on various bodies of water throughout the state of South Dakota.

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

**Dakota C**

**Grade Level: 8-C**

**Session: 48**

**Feb. 3, 2006**

**Speaker(s):** Joel Rauber & Judy Vondruska  
SDSU

**Title: Adding Vectors with MS-Word**

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.

**Friday**

**2:30 pm**

**2:30-3:20 pm**

**Dakota D**

**Grade Level: 9-12**

**Session: 49**

**Feb. 3, 2006**

**Speaker(s):** Bob Schuh & Cindy Kroon  
McIntosh/Montrose

**Title: Applications on the TI-84**

Participants will have hands-on experience with TI-84 application programs. Calculators will be provided.

**2:30-3:20 pm**

**Dakota F**

**Grade Level: 9-12**

**Session: 50**

**Feb. 3, 2006**

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

**Title: Function Transformations (70's  
Style)**

Active methods to informally assess student understanding of function transformations (Disco music is an added bonus)

**2:30-3:20 pm**

**Dakota G**

**Grade Level: 9-C**

**Session: 51**

**Feb. 3, 2006**

**Speaker(s):** Gary W. Hagerty  
BHSU

**Title: Self-Efficacy and the Choice of  
Freshman Math Course**

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.

## Friday 2:30 pm

**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 pm

**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 pm

**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**

**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 Feb. 4, 2006

Repeat of # 10

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 Feb. 4, 2006

Repeat of # 36

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 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 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 Feb. 4, 2006

Repeat of # 11

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 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**                      **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):** 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**                      **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.

## Saturday 9:30 am

**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!

## Saturday

9:30 am

9:30-11:20 am

Prairie C

Grade Level: K-3

Session: 76

Feb. 4, 2006

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

**Title: Using Math Start Books to Enhance Your Mathematics Program**

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.

9:30-10:20 am

Dakota A

Grade Level: K-C

Session: 77

Feb. 4, 2006

**Speaker(s):** Mike Barondeau  
Edmunds Central School

**Title: BB Board Molecular Demonstrator for Science**

This is a Make-It & 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.

9:30-10:20 am

Dakota E

Grade Level: 8-12

Session: 78

Feb. 4, 2006

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

**Title: Can You Take the Pressure?**

Integrate your math and science curriculum using this easy but profound data collection activity!

## Saturday

9:30 am

9:30-10:20 am

Dakota G

Grade Level: 6-12

Session: 79

Feb. 4, 2006

Repeat of # 5

**Speaker(s):** Brant Miller & Dr. Robb Winter  
Douglas MS/SDSM&T

**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.

9:30-10:20 am

Dakota H

Grade Level: 7-8

Session: 80

Feb. 4, 2006

**Speaker(s):** Vanya Munce  
Huron Middle School

**Title: Geometry Unit--String Art Designs**

This is a geometry unit. Many activities lead up to the grand finale of creating a string art project.

9:30-10:20 am

Symposium

Grade Level: K-12

Session: 81

Feb. 4, 2006

**Speaker(s):** Diana McCann & Jean Gomer

**Title: Measurement 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 10:30 am**

**10:30-11:20 am** Session: 82  
**Dakota A** Feb. 4, 2006  
**Grade Level: 6-12**

**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.

Have you heard about the  
**BIG** doorprize?

**10:30-11:20 am** Session: 84  
**Dakota C** Feb. 4, 2006  
**Grade Level: K-C**

**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.

**Saturday 10:30 am**

**10:30-11:20 am** Session: 85  
**Dakota D** Feb. 4, 2006  
**Grade Level: 4-6**

**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.

**10:30-11:20 am** Session: 86  
**Dakota E** Feb. 4, 2006  
**Grade Level: 5-C**

**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.

**10:30-11:20 am** Session: 87  
**Dakota G** Feb. 4, 2006  
**Grade Level: 7-C**

**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!

**Saturday 10:30 am**

**10:30-11:20 am** Session: 88  
Dakota H Feb. 4, 2006  
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** Session: 89  
Symposium Feb. 4, 2006  
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** Session: 90  
Prairie A & B Feb. 4, 2006  
Grade Level: All

Speaker(s): Mark Farrand & Chuck Holmstrom

**LUNCH**

**Saturday 1:00 pm**

**1:00-1:50 pm** Session: 91  
Prairie A Feb. 4, 2006  
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** Session: 92  
Prairie B Feb. 4, 2006  
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** Session: 93  
Prairie C Feb. 4, 2006  
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**                      **Session: 94**  
**Dakota B**                              **Feb. 4, 2006**  
**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**                              **Feb. 4, 2006**  
**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**                              **Feb. 4, 2006**  
**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**                              **Feb. 4, 2006**  
**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**                              **Feb. 4, 2006**  
**Repeat of # 40**

**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 help you enhance your instruction.

**1:00-1:50 pm**                      **Session: 99**  
**Dakota G**                              **Feb. 4, 2006**  
**Grade Level: 8-12**

**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.

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.

## Saturday 1:00 pm

1:00-2:50 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.

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**

**2:00-2:50 pm**                      **Session: 104**  
**Dakota B**                              **Feb. 4, 2006**  
**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**                      **Session: 105**  
**Dakota E**                              **Feb. 4, 2006**  
**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.

**2:00-2:50 pm**                      **Session: 106**  
**Dakota F**                              **Feb. 4, 2006**  
**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**                      **Session: 107**  
**Dakota G**                              **Feb. 4, 2006**  
**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**                      **Session: 108**  
**Symposium Feb. 4, 2006**  
**Grade Level: K-12**

**Speaker(s):** Bill Gripenrog & 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---**                                      **Session: 109**  
**Board Room**                              **Feb. 4, 2006**  
**Grade Level:**

**Speaker(s):** Joint Conference Board

### **Title: Joint Board Meeting**