

# Program for 2008 Joint Conference

**Thursday**

**7 pm**

**7:00-9:00 pm**

**Dakota C**

**Grade Level: K-C**

**Session: 1**

**Feb. 7, 2008**

**Speaker(s):** Bill Gripentrog  
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 G**

**Grade Level: K-C**

**Session: 2**

**Feb. 7, 2008**

**Speaker(s):** Ramona Lundberg  
SDSTA President-Elect

**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**

**Dakota A**

**Grade Level: 6-12+**

**Session: 3**

**Feb. 8, 2008**

**Speaker(s):** Lorie W. Johnston  
Newell HS

**Title: Do the Math with a Tablet**

Discover techniques for graphing with a tablet computer. Emphasis will be on graphing equations and inequalities on a coordinate plane using several different programs available on the tablet computer. Newell HS is in the second year of the laptop initiative. Find out what works for doing math with a laptop.

**Friday**

**8:30 am**

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

**Dakota B**

**Grade Level: 3-12+**

**Session: 4**

**Feb. 8, 2008**

**Speaker(s):** Steven Rokusek  
SD Public Broadcasting

**Title: What's Up with Finance**

SDPB will highlight two new television programs about finance. Your high school students will love "What Up with Finance." This upbeat new program comes complete with lesson plans and an interactive website. In addition, we have developed a new Kid's Quest for elementary children about counting back change. Each participant will receive 2 DVD's and accompanying teachers guides.

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

**Dakota C**

**Grade Level: 6-8**

**Session: 5**

**Feb. 8, 2008**

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

**Title: Whiz-Bang Demonstrations**

"Wow! Why did that happen? Can we do it again?" Fill your bag with practical, exciting demonstrations and discrepant events that are guaranteed to get your students' attention on Monday morning! There will be door prizes and give-aways.

**Next Year's Conference is  
February 5, 6, & 7, 2009**

**Friday 8:30 am**

**8:30-10:20 am**                      **Session: 6**  
**Dakota D**                              **Feb. 8, 2008**  
**Grade Level: 6-12**

**Speaker(s):** Lonnie Bellman  
CPM Educational Program

**Title: Exploring a Standards-Based,  
Research-Based Curriculum:  
CPM 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 long-term because of the mastery over time feature.

**8:30-9:20 am**                      **Session: 7**  
**Dakota E**                              **Feb. 8, 2008**  
**Grade Level: 6-12+**

**Speaker(s):** Matthew L. Miller & others  
Sioux Valley ACS/SDSU

**Title: South Dakota Chemistry Day  
Demonstrations**

On Tuesday, October 23rd, universities and high schools across South Dakota participated in demonstrations to celebrate National Chemistry Week. Pictures from these shows will be exhibited and participating teachers will present their favorite demonstrations. A discussion of how these demonstrations relate to state standards will ensue.

**Friday 8:30 am**

**8:30-9:20 am**                      **Session: 8**  
**Dakota F**                              **Feb. 8, 2008**  
**Grade Level: 9-12+**

**Speaker(s):** Sheila McQuade  
O'Gorman High School

**Title: What is TI-Nspire?**

This session will provide you with the opportunity to see and play with the newest member in TI's family of calculators. TI-Nspire technology helps your students see math in different ways with multiple representations of a concept on a single screen. The TI-Nspire handheld lets you keep using familiar TI-83+ and TI-84+ functionality with its interchangeable TI-84 + Keypad.

**8:30-9:20 am**                      **Session: 9**  
**Dakota G**                              **Feb. 8, 2008**  
**Grade Level: 9-12**

**Speaker(s):** Larry Browning, P. Kurtenbach,  
J. Krueger & M. Miller  
SDSU

**Title: OPIS: Our Place in Space**

OPIS engages teachers in activities to provide support for educationally disadvantaged students so that they can excel in math and science. The activities in 2007 included multicultural and financial aid discussions, science-based industry field trips and content-specific activities. Activities for 2008 will be introduced during this session.

**Next Year's Conference is  
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## Friday 8:30 am

**8:30-9:20 am** Session: 10  
**Dakota H** Feb. 8, 2008  
Grade Level: K-5

**Speaker(s):** Brenda Danielson  
Scotland Elementary School

### **Title: Do the Math**

My class of first graders appreciate songs and out of seat activities to practice math skills. K-2 activities that can be tweaked to 3-5 will be shared.

## Friday 9:30 am

**9:30-10:20 am** Session: 11  
**Prairie A** Feb. 8, 2008

Repeat of 79

Grade Level: 3-12

#### **Featured Speaker**

**Speaker(s):** Marlys J. Brimmer  
Ridgeview HS, Bakersfield, CA

### **Title: Easy Origami With Geometry Standards**

Three or four high-interest geometric projects will be completed in an hour, emphasizing geometry standards across the grade levels. Easy-to-follow handouts provided!

**9:30-11:20 am** Session: 12  
**Prairie B** Feb. 8, 2008  
Grade Level: K-12+

#### **Featured Speaker**

**Speaker(s):** Ben Saylor  
SD CAMSE/BHSU

### **Title: A Deep Underground Laboratory at Homestake**

This session will begin with a brief overview of scientific questions that are motivating the creation of the Deep Underground Laboratory at Homestake.

## Friday 9:30 am

**9:30-10:20 am** Session: 13  
**Prairie C** Feb. 8, 2008

Repeat of 85

Grade Level: K-8

**Speaker(s):** Penny L. Hammrich  
Sisters in Science, LLC

### **Title: Sisters in Science Equity Reform Project**

Science instruction is typically based on prescriptive texts that do not allow children to be inquisitive. This presentation will discuss the three national award-winning science programs for grades K-8. The programs engage the scientist in children through fun and innovative methods, encouraging children to learn science through exploration and inquiry.

**9:30-10:20 am** Session: 14  
**Dakota B** Feb. 8, 2008

Grade Level: 6-12+

**Speaker(s):** Brant Miller, facilitator  
U of MN

### **Title: SDSM&T RET Program Research Showcase**

South Dakota School of Mines and Technology Research Experience for Teachers program participants will present highlights of research and discuss classroom implications. Professional practice and student impact derived from the program will also be discussed.

**Next Year's Conference is  
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**Friday**

**9:30 am**

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

**Session: 15**  
**Feb. 8, 2008**

**Repeat of 75**

**Grade Level: 3-8**

**Speaker(s): Angelo Casaburri**  
**& Arnie Lund**

Aerospace Education Services Project &  
Jones County HS

**Title: Engineering Using Education**  
**Robotics Tools: LEGO Simple**  
**Machines**

Introduce elementary and middle school students to engineering using robotics education. An introduction to the LEGO Simple Machines Kit. Construct projects that are simple (un-motorized) and motorized machines that are under human control. Strategies on classroom teaching, conducting after-school activities, and how to host, coach, and mentor EARLY ROBOTICS competitions.

**9:30-10:20 am**  
**Dakota C**  
**Grade Level: K-12+**

**Session: 16**  
**Feb. 8, 2008**

**Speaker(s): Nola Redmond**  
Connecting Point

**Title: Promethean Resources**

This will be a session on Promethean resources. Questions about the Promethean Boards will be welcomed. We will also provide equipment for Kristi Lutgen to present curriculum uses of the Promethean Board.

**Friday**

**9:30 am**

**9:30-11:20 am**  
**Dakota E**  
**Grade Level: K-5**

**Session: 17**  
**Feb. 8, 2008**

**Speaker(s): Marcia Torgrude**  
**& Sherry Gettemy**  
TIE-ESA 7 & Meade School District

**Title: Multiplying and Dividing with Base**  
**Ten Blocks**

Do your students struggle with large number multiplication? What does the mention of division do to your students? Do they really understand multiplication and division? In this session, you will experience concrete understanding of these operations through the use of base ten blocks. Take your "aha's" back to your students.

**9:30-10:20 am**  
**Dakota E**  
**Grade Level: K-2**

**Session: 18**  
**Feb. 8, 2008**

**Speaker(s): Chris Larson**  
SDSU

**Title: Mean, Median and Mode**  
**--Hands On!**

Activities will demonstrate how to find the mean, median and mode. These activities were used in a second grade classroom and the students had fun.

**9:30-10:30 am**  
**Dakota G**  
**Grade Level: 3-12+**

**Session: 19**  
**Feb. 8, 2008**

**Speaker(s): Larry Browning**  
SDSU

**Title: Build a Stand for Your Telescope**

About 10 participants will build their own stand for a small telescope such as the one built during past conferences. Bring your telescope or binoculars. If the weather permits, these stands can be used at an observing session Friday night. Materials are provided in part by a NCLB/Title II grant.

**Friday**

**9:30 am**

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

**Dakota H**

**Grade Level: 3-8**

**Session: 20**

**Feb. 8, 2008**

**Speaker(s):** Anne Lewis  
SD Discovery Center

**Title: Project Webfoot**

Fun, hands-on learning about wetlands using materials developed by Ducks Unlimited. First 10 teachers receive complete kit, next 10: WOW Resource Guide.

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

**Symposium**

**Grade Level: 9-C**

**Session: 21**

**Feb. 8, 2008**

**Speaker(s):** A. S. Elkhader, facilitator  
NSU

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

Representatives from the mathematics departments of the higher education institutions will discuss topics relating to the transition from high school to college.

**Friday**

**10:30 am**

**10:30-11:20 am**

**Prairie A**

**Grade Level: 9-12+**

**Session: 22**

**Feb. 8, 2008**

**Featured Speaker**

**Speaker(s):** Marlys J. Brimmer  
Ridgeview HS, Bakersfield, CA

**Title: A.P. Statistics for Newbies**

Many helpful hints for teachers who are new to teaching A. P. Statistics or thinking of starting a class. Mnemonics, resources, websites, test-taking hints for students, pacing, textbook and review book recommendations, and much more! Packet of information provided.

**Friday**

**10:30 am**

**10:30-11:20 am**

**Prairie C**

**Grade Level: 6-12**

**Session: 23**

**Feb. 8, 2008**

**Speaker(s):** Brenda Robertson  
& Julie Erickson  
SD DOE/State Library

**Title: SD State Library: "We're Here to Help!"**

Did you know the SD State Library provides electronic resources that support the SD Science Content Standards? Expand your teaching tools by attending this session that looks at the SD Science Content Standards along with demonstrating electronic resources that will support them! Handouts include the SD Science Content Standards and Electronic Resources Guides.

**10:30-11:20 am**

**Dakota C**

**Grade Level: 6-12**

**Session: 24**

**Feb. 8, 2008**

**Speaker(s):** Kristi G. Lutgen  
Deubrook Area Schools

**Title: Promethean Wonder Board**

If you have or would like to have an interactive board in your classroom and wonder what you can do with it to enhance your teaching, then this presentation is for you.

**10:30-11:20 am**

**Dakota D**

**Grade Level: 7-C**

**Session: 25**

**Feb. 8, 2008**

**Speaker(s):** SDSU Science Ed Students  
SDSU

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

SDSU student teachers would like to discuss first-year teacher issues, concerns, and preparation. Bring your thoughts and advice for these young professionals.

## Friday 10:30 am

**10:30-11:20 am** Session: 26  
**Dakota F** Feb. 8, 2008  
Grade Level: 7-C

**Speaker(s):** SDSU Math Ed Students  
SDSU

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

Ashley Van Maanen, Bill Alsaker, Steve Beckler, Adam Doss, Paul Durbahn, Brittany Postma, John Stearns, Kim Weedman, and Heidi Werner would like to discuss first year teacher issues, concerns, and preparation. Bring your thoughts and advice for these young professionals.

**10:30-11:20 am** Session: 27  
**Dakota G** Feb. 8, 2008  
Grade Level: 3-12+

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

### **Title: What's Up--Tools to Study the Night Sky**

Participants will receive a planisphere and a Sky Gazer's Almanac© as well as instructions on how to use these tools to study the night sky. Weather permitting, these can be used at an observing session Friday night. Support for this presentation is provided in part by a NCLB/Title II grant.

**10:30-11:20 am** Session: 28  
**Salon** Feb. 8, 2008  
Grade Level: K-8

**Speaker(s):** Chad R. Tussing  
SD GFP-Project Wild

### **Title: WILD about ELK--Elementary**

Come learn ways you can teach your elementary students about one of South Dakota's largest hoofed animals. Note: attendees at all three WILD about ELK sessions will receive a copy of the WILD about ELK curriculum guide.

## Friday 12:00 NOON

**12:00-1:00 pm** Session: 29  
**Prairie A, B, C** Feb. 8, 2008  
Grade Level: All

**Speaker(s):** Micheline Hickenbotham  
& Bill Gripentrog  
Presidents of SDSTA & SDCTM

### **Title: LUNCH**

Presentation of 2nd annual Kelly Lane Earth and Space Science Grant  
Door Prizes will be given out.

## Friday 1:30 pm

**1:30-2:20 pm** Session: 30  
**Prairie A** Feb. 8, 2008  
Grade Level: 9-12+

**Featured Speaker**  
**Speaker(s):** Marlys J. Brimmer  
Ridgeview HS, Bakersfield, CA

### **Title: Math Competitions for Students**

From classroom to county competitions, students enjoy the challenge and improve their problem-solving skills with various competitions. Learn a new game or two that all of your students will enjoy, and hear about a new AP Statistics/AP Calculus contest we are starting in central California that you are welcome to do, too!

**1:30-2:20 pm** Session: 31  
**Prairie B** Feb. 8, 2008  
Grade Level: K-12+

**Featured Speaker**  
**Speaker(s):** Jearl Walker  
Cleveland State University

### **Title: 30 Years of Flying with the Flying Circus of Physics**

Come meet Dr. Jearl Walker, author of [The Flying Circus of Physics](#) and [Fundamentals of Physics](#) with Halliday and Resnick as well as 13 years of "Amateur Scientist" sections of Scientific American. Dr. Walker is an expert in relating physics to everyday life.

**Friday**

**1:30 pm**

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

**Prairie C**

**Grade Level: 9-12+**

**Session: 32**

**Feb. 8 2008**

**Speaker(s):** Bob Schuh & Marie Nehl  
McIntosh High School

**Title: Making Pi on the TI-83/TI-84  
Calculator**

The session will demonstrate how to develop a function that will calculate pi to a desired number of decimal places by finding the ratio of the perimeter of an n-gon to the diameter of its circumscribed circle.

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

**Dakota A**

**Grade Level: K-5**

**Session: 33**

**Feb. 8, 2008**

**Speaker(s):** Jill M. Helvig  
& Christina H. Miller  
Meade School District  
& Apple Valley/Fagan/Rosemount

**Title: Can Math Recovery Save  
Children Before They Fail?**

Math Recovery provides an intervention framework for teachers working with elementary students to help in the construction of numeracy skills through assessment which incorporates a strong analysis component and individualized teaching. Math Recovery strategies can be applied as an individual intervention or used within the context of the whole class.

**Friday**

**1:30 pm**

**1:30-3:20 pm**

**Dakota B**

**Grade Level: 3-8**

**Repeat of 96**

**Session: 34**

**Feb. 8, 2008**

**Speaker(s):** Angelo Casaburri  
& Arnie Lund  
Aerospace Education Services Project  
& Jones County HS

**Title: Engineering Using Education  
Robotics Tools: NXT LEGO Mindstorm**

Introduce middle and high school students to engineering using robotics education. An introduction to LEGO NXT construction, programming, and using sensors to interact the autonomous motorized robot with its environment. Strategies on classroom teaching, conducting after school activities, and how to host, coach, and mentor LEGO League competitions.

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

**Dakota C**

**Grade Level: 6-12+**

**Session: 35**

**Feb. 8, 2008**

**Speaker(s):** Patrick 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 fun for students and helps you plan your lessons. From CD-ROM to online textbooks, Holt can take you from chalkboard to computer screen! Door prizes and give-aways!

**Next Year's Conference is  
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## Friday 1:30 pm

**1:30-2:20 pm** Session: 36  
**Dakota D** Feb. 8, 2008

Repeat of 90

Grade Level: K-5

Speaker(s): Brenda Danielson  
& Lorraine Morfeld  
Scotland Elementary School

### Title: White Board (Bored) Magic

Do you have student-sized individual white boards in your classroom? These learning tools can be magic when added to your curriculum. Come learn a multitude of activities and practice strategies for white boards.

**1:30-2:20 pm** Session: 37  
**Dakota E** Feb. 8, 2008  
Grade Level: K-5

Speaker(s): Jan Martin  
SD Dept. of Education

### Title: Measuring Math

Measurement tends to be a weakness for our students on state and national assessments. Come and explore ideas for making measurement beyond the mundane.

**1:30-2:20 pm** Session: 38  
**Dakota F** Feb. 8, 2008  
Grade Level: 6-8

Speaker(s): Sharon S. Vestal  
SDSU

### Title: Exploring Three-dimensional Figures Using Nets

We will create polyhedra using nets and then explore properties of these polyhedra. Classify and discuss formulas such as Euler's formula. Classification of polyhedra will also be discussed.

## Friday 1:30 pm

**1:30-2:20 pm** Session: 39  
**Dakota G** Feb. 8, 2008  
Grade Level: K-C

Speaker(s): Mike Barondeau  
Edmunds Central School

### Title: BB Board Molecular Demonstrator for Science

This is a Make-It and Take-It session where you construct an acrylic BB-Board demonstrator for atomic/molecular motion. This session is limited to 9 and will cost each participant \$15 at the door for materials. To see what you will make go to <http://mb045.k12.sd.us/Ideas/Bbboard.htm>

**1:30-2:20 pm** Session: 40  
**Dakota H** Feb. 8, 2008  
Repeat of 78  
Grade Level: 6-12+

Speaker(s): Clark J. Bennett  
USD

### Title: An Introduction to SD Science Olympiad

Information about participating in the South Dakota Science Olympiad State Tournament will be presented. Recent examples of events run at the state tournament will be included in the presentation.

**1:30-2:20** Session: 41  
**Symposium** Feb. 8, 2008  
Grade Level: K-12+

Speaker(s): Brenda Murphey  
Rapid City Academies

### Title: Presidential Award Application Process

This will be an informal discussion about the Presidential Award application process. I have yet to receive a Presidential Award, but I have gone through the process, and could help someone understand some of the procedures.



**Friday**

**2:30 pm**

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

**Session: 42**  
**Feb. 8, 2008**

**Repeat of 102**

**Grade Level: 3-12+**

**Featured Speaker**

**Speaker(s): Marlys J. Brimmer**  
Ridgeview HS, Bakersfield, CA

**Title: Steps and Slides with Standards**

A review activity that looks like a game to students but has them practicing 75-100 problems in an hour! It is mental math (but I'll show elementary teachers and science teachers that they can easily use this in other courses too!) Students are actively engaged, and this can be used for any standard your students need to practice. They love it! You will leave with a setup to start using the activity Monday.

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

**Session: 43**  
**Feb. 8, 2008**

**Grade Level: K-12+**

**Speaker(s): Mary Frederick**  
& Karen Gordon  
Mickelson Middle School

**Title: Halloween Demonstrations**

A scary story becomes a lesson in science. Come and see how to get students motivated in science and find a creative way to use science demonstrations in this Science with a Theme and Scheme Lesson.

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**Friday**

**2:30 pm**

**2:30-4:20 pm**  
**Prairie C**  
**Grade Level: K-8**

**Session: 44**  
**Feb. 8, 2008**

**Speaker(s): Kristie L. Maher**  
SD Discovery Center

**Title: Great Explorations in Math & Science**

The SD Discovery Center will share great curriculum resources from the Great Explorations in Math & Science program. Participate in lots of hands-on activities. There will be something specifically for your grade level. Find out how you can access these outstanding resources.

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

**Session: 45**  
**Feb. 8, 2008**

**Repeat of 80**

**Grade Level: 9-12+**

**Speaker(s): Kris Baldwin**  
TIE

**Title: Power Up for Math and Science Tech Integration**

This presentation will highlight the work of 24 high school math and science teachers who are participating in the Power Up project. A brief review of the program components will be followed by hands-on practice in using some of the Web 2.0 tools featured in the project.

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

**Session: 46**  
**Feb. 8, 2008**

**Repeat of 70**

**Grade Level: 9-12+**

**Speaker(s): Kim C. Kightlinger**  
Hoven HS

**Title: Fido and Rover & Related Rates**

This progression through related rate problems will make teaching this calculus topic much easier. Kim will also share his experience of being a 2007 AP Calculus Exam Reader.

**Friday**

**2:30 pm**

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

**Dakota D**

Repeat of 88

**Grade Level: 9-12+**

**Speaker(s):** Jensi L. Kellogg-Andrus  
Watertown HS

**Title: Instructional Strategies for the  
Science Classroom**

This session will include strategies, activities, and labs you can use in science. These strategies will include literacy, problem solving, reinforcement, technology, and hands on activities. The examples used will be based on life science, but can easily be adapted to any science classroom. If you want to add to your teaching "toolbox," this is the session for you!

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

**Dakota E**

**Grade Level: K-12+**

**Speaker(s):** Marlene Rothermel  
& Karen Taylor  
TIE

**Title: Connections: Ourselves, Our  
Subjects, Our Students**

This session will incorporate insights from Parker Palmer's books Courage to Teach and A Hidden Wholeness. During this session we will examine the heart of good teaching through a brief 'Circle of Trust' experience.

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

**Dakota F**

**Grade Level: 9-12+**

**Speaker(s):** Sharon S. Vestal  
SDSU

**Title: The Calculus I Gateway Exam at  
SDSU-an Update**

We have given the Gateway Exam to Calculus I students for two semesters, Spring 2007 and Fall 2007. We will share a preliminary analysis of the data.

**Session: 47**

**Feb. 8, 2008**

**Friday**

**2:30 pm**

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

**Dakota G**

**Grade Level: 9-C**

**Speaker(s):** James Stearns  
SD AAPT

**Title: SD-AAPT Photo Contest**

Final voting and judging will be taking place on the photos and essays submitted. (Check out the photos in the hall Thursday night and/or Friday and put in your two cents.)

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

**Dakota H**

**Grade Level: 9-12+**

**Speaker(s):** Steven Rokusek  
SD Public Broadcasting

**Title: Science Education SDPB**

South Dakota Public Broadcasting will highlight new science programs and old favorites. Hints on where to locate accompanying resources will be covered.

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

**Symposium**

**Grade Level: 3-8**

**Speaker(s):** Jan Martin  
SD Dept. of Education

**Title: Exploring the National  
Assessment of Educational  
Progress (NAEP) Item Pool**

The results of the 2007 4th and 8th grade NAEP have been released. While school or student results are not available, a wealth of information is available to teachers about NAEP items which can be used to plan instruction.

**Session: 50**

**Feb. 8, 2008**

**Session: 51**

**Feb. 8, 2008**

**Session: 52**

**Feb. 8, 2008**

## Friday 2:30 pm

**2:30-3:20 pm** Session: 53  
**Salon** Feb. 8, 2008  
Grade Level: 6-12+

Speaker(s): Chad R. Tussing  
SD GFP-Project Wild

### Title: **WILD about ELK--Secondary**

Want to give your high school students a chance to learn about a real-life issue in South Dakota? Learn how in this fun, informative session about elk. Note: attendees at ALL three WILD about ELK sessions will receive a copy of the WILD about ELK curriculum guide.

## Friday 3:30 pm

**3:30-4:20 pm** Session: 54  
**Prairie B** Feb. 8, 2008  
Grade Level: K-5

Speaker(s): Jill M. Helvig  
& Christina H. Miller  
Meade School District  
& Apple Valley/Fagan/Rosemount

### Title: **Putting Some Structure to Number**

Why do children continue to use fingers when solving addition and subtraction problems? See how special patterns, finger patterns, and combining and partitioning numbers can impact students' success with addition and subtraction problem solving. We will look at basic facts as well as multi-digit addition and subtraction. Activities to take back to your classroom will be a part of this session.

## Friday 3:30 pm

**3:30-4:20 pm** Session: 55  
**Dakota B** Feb. 8, 2008  
Repeat of 89  
Grade Level: 6-8

Speaker(s): Jolene K. Thompson  
Mitchell MS

### Title: **Engineering, Architecture and Design**

Students become enthusiastic for geometry and measurement through this unit. Hands-on activities include exploring polygons and designing and building toothpick bridges.

**3:30-4:20 pm** Session: 56  
**Dakota D** Feb 8, 2008  
Grade Level: 9-12+

Speaker(s): Justin J. Jessop  
& Jim Faulstich  
SD Grasslands Coalition

### Title: **Goal Setting**

Faulstich will talk of how his ranch management has progressed in the last 30 years. Now he manages the ranch holistically and watches the water and mineral cycles.

**3:30-4:20 pm** Session: 57  
**Dakota G** Feb. 8, 2008  
Grade Level: 8-C

Speaker(s): SD-AAPT Officers  
American Association of Physics Teachers

### Title: **AAPT Meeting**

Meeting of the South Dakota chapter of the American Association of Physics Teachers.

**Friday 3:30 pm**

**3:30-4:30 pm** Session: 58  
**Dakota H** Feb. 8, 2008  
Grade Level: 6-12

**Speaker(s):** Ramona R. Lundberg  
Deuel School District

**Title: Reptiles, Insects & Mammals in the Classroom**

Come and see some of the creatures we keep in the science classroom and hear how students' learning is enhanced.

**3:30-4:20 pm** Session: 59  
**Symposium** Feb. 8, 2008  
Grade Level: 6-12+

**Speaker(s):** Brenda Murphey  
& Nicole Keegan  
Rapid City Academies & Dakota Middle School

**Title: It Is the Little Things That Matter the Most**

Math or Science teachers can join this session to discuss the "little things" that happen in a classroom. Often time, it is not the content of the lesson, but the atmosphere of the classroom and sense of belonging that students feel that allow the most effective learning to take place. Let's put the heart back into learning.

**Friday 4:30 pm**

**4:30-5:30** Session: 60  
**Dakota C** Feb. 8, 2008

**Title: SDCTM Business Meeting**  
Bill Gripentrog, President

**4:30-5:30** Session: 61  
**Dakota G** Feb. 8, 2008

**Title: SDSTA Business Meeting**  
Micheline Hickenbotham, President

**Friday 6:00 pm**

**6:00-7:00** Session: 62  
**Pre-Function Area** Feb. 8, 2008

**RECEPTION**

Sponsored by Holt, Rinehart, Winston

**Friday 7:00 pm**

**7:00 pm** Session: 63  
**Prairie A, B, C** Feb. 8, 2008

**Banquet**

Bill Gripentrog & Micheline Hickenbotham

**Featured Speaker**

**Speaker(s):** Jearl Walker  
Cleveland State University

**The Flying Circus of Physics**

**After Banquet** Session: 64  
**Lobby** Feb. 8, 2008  
Grade Level: K-12+

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

**Title: Star Party**

Weather permitting, the presenters will facilitate an observing session AFTER the Friday Night Banquet.

**Next Year's Conference is  
February 5, 6, & 7, 2009**

## Saturday

7:00-8:00 am

Salon

Grade Level: K-12

7:00 am

Session: 65

Feb. 9, 2008

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 as guests of PAEMST.

## Saturday

8:30-9:20 am

Dakota B

Grade Level: 9-12+

8:30 am

Session: 66

Feb. 9, 2008

Speaker(s): Molly TenBroek  
McIntosh HS

### Title: Where is YOUR Center of Mass (Gravity)?

Students use a long plank, a scale and their knowledge of translational equilibrium to calculate their center of mass (gravity) with their arms in different positions. I use this with my physics students, but it could also be used in Physical Science since the formula is very straightforward.

8:30-9:20 am

Dakota C

Grade Level: K-5

Session: 67

Feb. 9, 2008

Speaker(s): Sandy Ullrich  
& Mary Jo Christensen  
Aberdeen & Webster

### Title: Marvelous Math

Come and learn activities that incorporate hands-on, inquiry-based lessons. The lessons also include trade books and writing activities. South Dakota Math Standards are incorporated.

## Saturday

8:30-9:20 am

Dakota D

Grade Level: 3-8

8:30 am

Session: 68

Feb. 9, 2008

Speaker(s): Becky Umenthum  
Dakota Middle School, Rapid City

### Title: Quilting in Mathematics

Learn how to use quilting to teach measurement, geometry, and fractions. (No sewing--just designing). I'll share activities I've used with both sixth and eighth graders and how to adapt them for younger or older students.

8:30-9:20 am

Dakota E

Grade Level: 9-12+

Session: 69

Feb. 9, 2008

Speaker(s): Paul R. Kuhlman  
Avon HS

### Title: Begin the year with a pop: I mean diet pop!

Participants will learn how to use the famous diet Coke-Mentos reaction as an introduction to the scientific method. Another activity on calculating the percentage of oxygen in air will also be presented.

8:30-9:20 am

Dakota F

Grade Level: 9-12+

Repeat of 46

Session: 70

Feb. 9, 2008

Speaker(s): Kim C. Kightlinger  
Hoven HS

### Title: Fido and Rover & Related Rates

This progression through related rate problems will make teaching this calculus topic much easier. Kim will also share his experience of being a 2007 AP Calculus Exam Reader.

## Saturday 8:30 am

**8:30-9:20 am** Session: 71  
**Dakota G** Feb. 9, 2008  
Grade Level: 6-12+

Speaker(s): Jay H. Berglund  
Gettysburg HS

### Title: **An overview of TI-InterActive and TI SmartView**

An overview of Texas Instruments computer software TI InterActive and TI SmartView. TI InterActive brings the power of TI graphing calculators to your computer. It can be used to create interactive worksheets to enhance student learning. TI SmartView lets the teacher project an interactive representation of the calculator's display to the entire class.

## Saturday 8:30 am

**8:30-10:20 am** Session: 72  
**Dakota H** Feb. 9, 2008  
Grade Level: 3-8

Speaker(s): Nancy Barondeau  
NSU

### Title: **Robots**

After sharing a robot unit, working robots will be constructed using Robotix parts.

**8:30-9:20 am** Session:  
73  
**Salon** Feb. 9, 2008  
Grade Level: K-12

Speaker(s): Diana McCann  
& Ramona Lundberg  
Presidential Award Coordinators

### Title: **Tips for Winning Money**

Would you like to receive \$10,000? Every year South Dakota is eligible to make two \$10,000 awards, one in science and one in math. The Presidential Award is Sponsored by the White House and the National Science Foundation. Come to this session to be assigned a mentor and/or to learn how to complete an application.

## Saturday 9:30 am

**9:30-10:20 am** Session: 74  
**Dakota A** Feb. 8, 2008  
Grade Level: K-12+

Speaker(s): Marlene Rothermel  
TIE

### Title: **TakeOne! To Enhance Teaching and Learning**

TakeOne! Is a unique offering from the National Board for Professional Teaching Standards (NBPTS) that provides a standards-based approach for improving teaching practice and links student learning to effective instruction. During the session you will learn how this program might benefit you and your teaching team.

## Saturday 9:30 am

**9:30-11:20 am** Session: 75  
**Dakota B** Feb. 9, 2008  
Repeat of 15  
Grade Level: 3-8

Speaker(s): Angelo Casaburri  
& Arnie Lund  
Aerospace Education Services Project  
& Jones County HS

### Title: **Engineering Using Education Robotics Tools: LEGO Simple Machines**

Introduce elementary and middle school students to engineering using robotics education. This session provides an introduction to the LEGO Simple Machines Kit. Construct projects that are simple (un-motorized) and motorized machines that are under human control. Strategies on classroom teaching, conducting after school activities, and how to host, coach, and mentor EARLY ROBOTICS competitions.

## Saturday

9:30 am

9:30-11:20 am

Dakota C

Grade Level: K-2

Session: 76

Feb. 9, 2008

Speaker(s): Renee Brooks  
& Johnath L. Weber  
Frederick School District & NSU

Title: **CGI in the Primary Grades! How Will It Fit with My Textbook?**

The presenters share their experiences in changing a first grade classroom from a traditional mathematics environment to a Cognitively Guided Instructional environment. Presenters will share ideas and strategies that helped to create an engaging classroom atmosphere where all children had a chance to enjoy, succeed, and grow mathematically.

9:30-10:20 am

Dakota D

Grade Level: 3-8

Session: 77

Feb. 9, 2008

Speaker(s): Jan Martin & Dave Martin  
SD DOE & Cheyenne Eagle-Butte HS

Title: **Crafting Math**

Explore ways various hobbies can assist in the teaching of geometry and measurement. If you have a particular craft or hobby you enjoy, bring samples to share. Focus will be on knitting, quilting and paper projects.

## Saturday

9:30 am

9:30-10:20 am

Dakota E

Grade Level: 6-12+  
Repeat of 40

Session: 78

Feb. 9, 2008

Speaker(s): Clark J. Bennett  
USD

Title: **An Introduction to SD Science Olympiad**

Information about participating in the South Dakota Science Olympiad State Tournament will be presented. Recent examples of events run at the state tournament will be included in the presentation.

9:30-10:20 am

Dakota G

Grade Level: 3-12  
Repeat of 11

Session: 79

Feb. 9, 2008

Featured Speaker  
Speaker(s): Marlys J. Brimmer  
Ridgeview HS, Bakersfield, CA

Title: **Easy Origami With Geometry Standards**

Three or four high-interest geometric projects will be completed in an hour, emphasizing geometry standards across the grade levels. Easy-to-follow handouts provided!

Next Year's Conference is  
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## Saturday 9:30 am

**9:30-11:20 am** Session: 80  
**Symposium** Feb. 9, 2008

Repeat of 45  
Grade Level: 9-12+

Speaker(s): Kris Baldwin  
TIE

### Title: Power Up for Math and Science Tech Integration

This presentation will highlight the work of 24 high school math and science teachers who are participating in the Power Up project. A brief review of the program components will be followed by hands-on practice in using some of the Web 2.0 tools featured in the project.

## Saturday 10:30 am

**10:30-11:20 am** Session: 81  
**Dakota A** Feb. 9, 2008  
Grade Level: K-12+

Speaker(s): Ramona Lundberg  
& Becky Umenthum  
Deuel HS & Dakota MS, Rapid City

### Title: National Board for Professional Teaching Standards

This session will provide an overview of the process, resources available and a question and answer session. Both presenters are National Board Certified Teachers.

**10:30-11:20 am** Session: 82  
**Dakota D** Feb. 9, 2008  
Grade Level: 9-12+

Speaker(s): Julie Olson  
Mitchell HS

### Title: Bone Builders

Bioengineering of bone materials incorporates some physics, physiology, anatomy, and math. Build a paper bone according to certain specifications and test its strength.

## Saturday 10:30 am

**10:30-11:20 am** Session: 83  
**Dakota E** Feb. 9, 2008  
Grade Level: K-C

Speaker(s): Charles Holmstrom  
SDRS Board of Trustees

### Title: Your Retirement

Information, questions, and maybe some answers about retirement in SD.

**10:30-11:20 am** Session: 84  
**Dakota F** Feb. 9, 2008  
Grade Level: 3-5

Speaker(s): Penelope N. Smith  
USD

### Title: Fraction Action

Ideas for teaching fractions will be presented. Session includes: misconceptions, methods/strategies and assessment

**10:30-11:20 am** Session: 85  
**Dakota H** Feb. 9, 2008  
Repeat of 13

Grade Level: K-8

Speaker(s): Penny L. Hammrich  
Sisters in Science, LLC

### Title: Sisters in Science Equity Reform Project

Science instruction is typically based on prescriptive texts that do not allow children to be inquisitive. This presentation will discuss the three national award-winning science programs for grades K-8. The programs engage the scientist in children through fun and innovative methods, encouraging children to learn science through exploration and inquiry.



## Saturday 10:30 am

**10:30-11:20 am** Session: 86  
**Salon** Feb. 9, 2008  
Grade Level: 3-12+

Speaker(s): Chad R. Tussing  
SD GFP-Project Wild

### Title: WILD about ELK--Math

Want to learn about one of South Dakota's largest creatures and how you can use elk to teach math? Join this session for some great info and a fun activity. Note: attendees at all three WILD about ELK sessions will receive a copy of the WILD about ELK curriculum guide.

## Saturday 12:00 NOON

**12:00-1:00 pm** Session: 87  
**Prairie A, B** Feb. 9, 2007  
Grade Level: All

Speaker(s): Bill Gripentrog  
& Micheline Hickenbotham  
Presidents of SDSTA & SDCTM

### Title: LUNCH

Door Prizes galore!

Next Year's Conference is  
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## Saturday 1:00 pm

**1:00-2:50 pm** Session: 88  
**Dakota A** Feb. 9, 2008  
Repeat of 47  
Grade Level: 9-12+

Speaker(s): Jensi L. Kellogg-Andrus  
Watertown HS

### Title: Instructional Strategies for the Science Classroom

This session will include strategies, activities, and labs you can use in science. These strategies will include literacy, problem solving, reinforcement, technology, and hands-on activities. The examples used will be based on life science, but can easily be adapted to any science classroom. If you want to add to your teaching "toolbox," this is the session for you.

**1:00-1:50 pm** Session: 89  
**Dakota C** Feb. 9, 2008  
Repeat of 55  
Grade Level: 6-8

Speaker(s): Jolene K. Thompson  
Mitchell MS

### Title: Engineering, Architecture and Design

Students become enthusiastic for geometry and measurement through this unit. Hands-on activities include exploring polygons and designing and building toothpick bridges.

**1:00-1:50 pm** Session: 90  
**Dakota D** Feb. 9, 2008  
Repeat of 36  
Grade Level: K-5

Speaker(s): Brenda Danielson  
& Lorraine Morfeld  
Scotland Elementary School

### Title: White Board (Bored) Magic

Do you have student-sized individual white boards in your classroom? These learning tools can be magic when added to your curriculum. Come learn a multitude of activities and practice strategies for white boards.

## Saturday

1:00 pm

1:00-1:50 pm

Dakota E

Grade Level: K-5

Session: 91

Feb. 9, 2008

Speaker(s): Sandy Ullrich  
& Mary Jo Christensen  
Aberdeen & Webster

Title: **Science for Everyone**

Afraid to teach science? Come to this session for activities that will include hands-on, inquiry-based teaching, as well as trade books and writing activities. South Dakota Science Standards are also incorporated.

1:00-1:50 pm

Dakota F

Grade Level: 9-12+

Session: 92

Feb. 9, 2008

Speaker(s): Sheila McQuade  
O'Gorman HS

Title: **Using the TI-84 to Enhance Your Geometry Instruction**

The TI-84 calculator comes pre-loaded with an interactive geometry application that can be used to verify or discover many geometry concepts. Use it to introduce a concept or as a means for students to investigate and write their "own" rules/formulas.

1:00-2:50 pm

Dakota G

Grade Level: 9-12+

Session: 93

Feb. 9, 2008

### Featured Speaker

Speaker(s): Marlys J. Brimmer  
Ridgeview HS, Bakersfield, CA

Title: **A.P. Statistics Activities**

Two hours of activities from throughout the year-long AP Statistics curriculum. Packet of activities provided! Bring your TI graphing calculator and link cable.

## Saturday

1:00 pm

1:00-1:50 pm

Symposium

Grade Level: K-C

Session: 94

Feb. 9, 2008

Speaker(s): Tracy L. Vik  
Sioux Falls School District

Title: **The Impact of Poverty on Our Schools**

Poverty is on the rise in our state and in the nation. Understanding the hidden rules & norms of poverty can help educators help their students be successful in the classroom.

## Saturday

1:00 pm

1:00-1:50 pm

Salon

Grade Level: K-8

Session: 95

Feb. 9, 2008

Speaker(s): Chad R. Tussing  
SD GFP-Project WILD

Title: **No Child Left Inside**

Don't let your kids wither away indoors, out of the sun (and wind and rain and snow). This session will provide you with some tried and true activities that will get your kids outdoors, learning about the natural world. Note: Come prepared to go outside.

**Saturday**

**2:00-3:50 pm**

**Dakota B**

**Repeat of 34**

**Grade Level: 3-8**

**Speaker(s): Angelo Casaburri  
& Arnie Lund**

Aerospace Education Services Project  
& Jones County HS

**Title: Engineering Using Education  
Robotics Tools: NXT LEGO  
Mindstorm**

Introduce middle and high school students to engineering using robotics education. An introduction to LEGO NXT construction, programming, and using sensors to interact with the autonomous motorized robot with its environment. Strategies on classroom teaching, conducting after school activities, and how to host, coach, and mentor LEGO League competitions.

**2:00-2:50 pm**

**Dakota D**

**Grade Level: K-8**

**2:00 pm**

**Session: 96**

**Feb. 9, 2008**

**Session: 97**

**Feb. 9, 2008**

**Speaker(s): Jan Martin**

SD Dept. of Education

**Title: Curriculum Focal Points--How  
Does South Dakota Measure Up?**

Since the NCTM Curriculum Focal Points have been released, studies of state standards compared to the focal points have been conducted. Explore what the Focal Points have to tell us in South Dakota.

**Saturday**

**2:00-3:50 pm**

**Dakota E**

**Grade Level: 3-5**

**Speaker(s): Johnath L. Weber**  
NSU

**Title: Getting Kids Excited about  
Problem Solving**

Students often view problem-solving as the dreaded story problems at the end of a textbook lesson. Experience some engaging problems and strategies that will help students find mathematics both challenging and engaging and put "thinking" in the forefront!

**2:00-3:50 pm**

**Dakota F**

**Grade Level: 9-12+**

**Repeat of 11.5**

**Session: 99**

**Feb. 9, 2008**

**Speaker(s): Cindy Kroon**  
Montrose HS

**Title: Pi Day--the other math holiday**

Experience the joy of pi as you participate in a variety of Pi Day activities. Celebrate the circle with activities for algebra, geometry, trig and pre-calculus.

**Saturday**

**3:00-3:50 pm**

**Dakota C**

**Grade Level: 9-12+**

**3:00 pm**

**Session: 100**

**Feb. 9, 2008**

**Speaker(s): Julie Olson**  
Mitchell HS

**Title: Science Webquests**

We will discuss the various forms of webquests and their purpose. There will be several samples you will be able to take with you and use right away. Bring any you have to share.

**3:00-3:50 pm**  
**101**

**Dakota D**  
**2008**

**Grade Level: K-12+**

**Session:**

**Feb. 9,**

**Speaker(s): Marcy Farrand**  
Rapid City Schools

**Title: Waking Up Your Brain**

Ways to get your classroom ready for optimum learning and test taking.

**3:00-3:50 pm**  
**102**

**Dakota G**  
**2008**

**Repeat of 42**  
**Grade Level: 3-12+**

**Session:**

**Feb. 9,**

**Featured Speaker**

**Speaker(s): Marlys J. Brimmer**  
Ridgeview HS, Bakersfield, CA

**Title: Steps and Slides with Standards**

A review activity that looks like a game to students but has them practicing 75-100 problems in an hour! It is mental math (but I'll show elementary teachers and science teachers that they can easily use this in other courses too!) Students are actively engaged, and this can be used for any standard your students need to practice. They love it! You will leave with a setup to start using the activity Monday.

**Saturday**

**3:00-3:50 pm**

**Dakota H**

**Grade Level: K-5**

**3:00 pm**

**Session: 103**

**Feb. 9, 2008**

**Speaker(s): Brenda Danielson**  
Scotland Elementary School

**Title: Reading-'Riting & Arithmetic & Health**

We are always looking for connections. Using familiar literature for read-alouds, I will show math and health standard connections and activities.

**Saturday**

**4:00--**

**Board Room**

**4:00 pm**

**Session: 104**

**Feb. 9, 2008**

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

**Title: Joint Board Meeting**