

Program for 2005 Joint Conference

Program changes updated in blue 1/20/05

Program changes updated in green 1/30/05

Thursday 7 pm

7:00-9:00 pm **Session: 1**
Ballroom B **Feb. 3, 2005**
Grade Level: K-12

Speaker(s): Micheline Hickenbotham, Facilitator
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.

7:00-9:00 pm **Session: 2**
Ballroom C **Feb. 3, 2005**
Grade Level: K-12

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.

7:00-8:00 pm **Session: 3**
Symposium **Feb. 3, 2005**
Grade Level: K-C

Speaker(s): Jerry Loomer
AAPT Student Produced Videos

Title: AAPT Videos

Teachers are invited to view and judge the entries in the SD Student Produced Science Video Program. Student videos are less than five minutes long, each, and the top video will be invited to submit to the national AAPT Competition.

Friday 8:30 am

8:30-10:20 am **Session: 4**
Ballroom A **Feb. 4, 2005**
Grade Level: K-12

Speaker(s): Marilyn Rindfuss, Featured Speaker
Harcourt

Title: Improving Student Performance on Mathematics and Science Assessments

Classroom strategies designed to improve student performance on all of the assessments they face will be the focus of this session. While examples will come primarily from mathematics, strategies and activities will be generic. Handouts will be provided, and the entire presentation will be available to those who request it via email.

8:30-9:20 am **Session: 5**
Ballroom B **Feb. 4, 2005**
Grade Level: K-4

Speaker(s): Cindi C. Chandler
BHSU

Title: Why is Subtraction So Hard? And What You Can Do About It!

Participants in this session will leave with a better understanding of why subtraction is so difficult for elementary students. Classroom activities will also be discussed.

Friday 8:30 am

8:30-9:20 am **Session: 6**
Ballroom C **Feb. 4, 2005**

Repeat of # 72

Grade Level: K-8

Speaker(s): Donna M. Uttenhove
Harcourt School Publishers

Title: Motivating Students: Math and Science are FUN!

Games, strategies, and motivational tools to stimulate students to learn math & science--vocabulary, facts, graphs, and more.

8:30-4:20 **Session: 7**
Salons **Feb. 4, 2005**

Grade Level: K-12

Participants: Partners in Outdoor Education

Title: The Outdoor Education Journey

This display of outdoor education programs available in SD is a partnership between non-profit organizations, outdoor education programs, educational destinations, and the BHSU-NSTA Student Chapter. These students will help participants learn and find out about many environment and outdoor programs available in SD as well as learning materials and field trip ideas. The first thirty participants will receive a free backpack filled with new ideas and materials. Hands-on and fun activities will provide teachers with a flavor of these curricula.

8:30-9:20 am **Session: 8**
Symposium **Feb. 4, 2005**

Grade Level: 6-12

Speaker(s): Ken Graupmann
Kadoka School

Title: Severe Weather, Hurricanes & Tornadoes

Project Atmosphere modules from AMS will be given to each participant.

Friday 8:30 am

8:30-9:20 am **Session: 9**
Church A **Feb. 4, 2005**

Grade Level: 6-8

Speaker(s): Amy Helfrich
Holt, Rinehart Winston

Title: Don't Just Teach-'em--Reach'em

Using graphing calculators and other technology to enliven your middle school math classroom. Walk away with multiple activities! Door Prizes!

8:30-9:20 am **Session: 10**
Church B **Feb. 4, 2005**

Repeat of # 90

Grade Level: 5-7

Speaker(s): Sheryl M. Beglinger
Comprehensive Center Region VI

Title: Take the Fear Out of Fractions

Learn some techniques that will make fractions meaningful to your students.

8:30-9:20 am **Session: 10A**
Church C **Feb. 4, 2005**

Grade Level: All

Speaker(s): Laura Causey

Title: Teaching Science and Math With Foldables

Learn to create easy-to-make, three-dimensional, interactive graphic organizers that will help students be actively engaged in learning. These study strategies will help students understand, organize, remember and apply new information. Sponsored by Glencoe-McGraw Hill

Friday 8:30 am

8:30-10:20 am **Session: 11**
Church C **Feb. 4, 2005**
Grade Level: 3-8

Speaker(s): Cheri Eck
Box Cars & One-Eyed Jacks

Title: Probability Fun "Die" Mentals

Session cancelled

8:30-9:20 am **Session: 12**
Church D **Feb. 4, 2005**
Grade Level: 3-C

Speaker(s): Lisa A. Dorschner & Mary Aldrich
SD Agriculture in the Classroom

Title: The Science & Art of SD Soils

This is a soil painting class with an 80/20 ratio of soil science to art concepts. Participants are introduced to the important role that soil has in our everyday lives as well as basic art. The lesson culminates with the opportunity to paint with SD soils.

8:30-10:30 am **Session: 13**
YWCA **Feb. 4, 2005**
Grade Level: K-5

Speaker(s): Dianne Miller
SD Project Learning Tree

Title: PLT Focuses on Developing Critical Thinking Skills

PLT doesn't try to teach what to think, it stresses how to think about environmental issues. We will give you tools and activities to help teach how to think about our environment. Our material is classroom friendly, requiring little preparation time, few materials, and are in alignment with state curriculum objectives and guidelines.

Friday 9:30 am

9:30-11:20 am **Session: 14**
Ballroom B **Feb. 4, 2005**
Grade Level: 5-8

Speaker(s): Penny Roberts, Featured Speaker
Muhlenberg County School System

Title: Movies, Music & More

Enhance your mathematics classroom by integrating movie clips, music, literature, and more! Have students begging to come to your mathematics class.

Friday 9:30 am

9:30-11:20 am **Session: 15**
Ballroom C **Feb. 4, 2005**
Grade Level: K-C

Speaker(s): Jay Trobeck, Featured Speaker
KELO-TV

Title: Weather Anomalies in South Dakota

Jay has discovered a lot about the weather history of this area. He will share what he has learned by presenting case studies of significant weather events.

9:30-11:20 am **Session: 16**
Symposium **Feb. 4, 2005**
Grade Level: 9-C

Speaker(s): Jeffrey Palmer, et al
DSU

Title: 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

9:30-11:20 **Session: 18**
Church B **Feb. 4, 2005**

Repeat of # 64

Grade Level: 5-9

Speaker(s): Sheryl M. Beglinger
Comprehensive Center Region VI

Title: Double Digit Multiplication Madness

Did you know that there are 9 ways of doing double-digit multiplication? Come and have some fun.

9:30-10:20 **Session: 18A**
Church C **Feb. 4, 2005**

Grade Level: K-6

Speaker(s): Nancy Barondeau

Title: Linking Writing to Math and Science

A variety of ways to increase students conceptual knowledge of math and science through writing will be explored. Nancy Barondeau is Director of field experience at NSU.

9:30-11:20 am **Session: 19**
Church D **Feb. 4, 2005**

Grade Level: 7-12

Speaker(s): Scott Fossum
Tech Prep/Mitchell

Title: What's HOTT is South Dakota?

Strategies, best practices, and resources will be shared by Tech Prep around the HOTT (Health Occupations for Today and Tomorrow) Theme.

Friday 9:30 am

9:30-11:20 am **Session: 20**
Mobile Science Lab **Feb. 4, 2005**
Grade Level: K-12

Speaker(s): Jerry Opbroek, Bob Vanderlinde, Judy Vondruska & Julie Olson
SD Mobile Science Lab

Title: Science Activities with Vernier Lab Probes

Can technology help students learn science? You decide! This session will provide participants with the opportunity to explore how Vernier probes can be used to investigate scientific principles in physical science, earth science, biology, chemistry, and physics. Over 10 probe types are available: including motion, force, EKG, microphone, radiation and many more.

Friday 10:30 am

10:30-11:20 am **Session: 21**
Ballroom A **Feb. 4, 2005**
Grade Level: 6-8

Speaker(s): Amy Helfrich
Holt, Rinehart & Winston

Title: Labs, Puzzlers. . . And more Labs!

Combine motivating activities that challenge and focus students' science thinking throughout the day with Holt's Science Puzzlers, Twisters and Teasers, and great lab ideas for the middle school classroom. Limited complimentary resource material will be provided . . . Plus door prizes and give-aways!

10:30-11:20 **Session: 22**
Church A **Feb. 4, 2005**
Grade Level: K-12

Speaker(s): Sandi Ransom & Lori Keleher
Wolsey-Wessington Elementary

Title: Celebrating National Metric Week...

...and other ideas to add "PIZZA"Z to your math curriculum while meeting the standards.

Friday 10:30 am

10:30-11:20 ADD

Church C

Grade Level: K-5

Session 23A

Feb. 4, 2005

Title: **Minds in Motion**

Speakers(s): Kris Malloy & Jacque Herrboldt. Enhance student learning through movement. Get your students up and moving while reinforcing the core content standards for grades K-5. Attend this session and be one of the first to receive this valuable resource.

Friday 10:30 am

10:30-11:20 am

YWCA

Grade Level: 7-12

Session: 24

Feb. 4, 2005

Speaker(s): Larry Browning
SDSU

Title: **PTRA-Help for Teachers of Physics and Physical Science**

Physics Teacher Resource Agents Program, sponsored by the American Association of Physics Teachers, provides training, resources and stipends for participants in its summer programs. You can learn more about this program and the upcoming workshop (Brookings, July 11-15). Previous participants are encouraged to attend.

Friday 11:45 am

11:45-1:10 pm

Arena

Grade Level:

Session: 25

Feb. 4, 2005

Speaker(s): Mark Farrand & Chuck Holmstrom

LUNCH

Friday 1:30 pm

1:30-2:20

Ballroom A

Grade Level: 9-12

Session: 26

Feb. 4, 2005

Speaker(s): Amy Helfrich

Holt, Rinehart & Winston

Title: **Labs, Labs, and More Labs . . . For High School!**

New labs for every high school science class you teach! Make learning fun with the latest labs for Biology, Chemistry, and Physical Science. Limited complimentary resource materials will be provided. Plus door prizes and give-aways!

1:30-2:20 pm

Ballroom B

Grade Level: K-C

Session: 27

Feb. 4, 2005

Speaker(s): Jennifer R. Neuhauser
SD Dept. of Education

Title: **"We're the DOE and We're Here to Help"**

This presentation will give a brief overview of the Office of Curriculum, Technology and Assessment, highlighting new staff and programs.

1:30-2:20

Ballroom C

Grade Level: 6-8 & C

Session: 28

Feb. 4, 2005

Speaker(s): Eleanor M. Thomas
Holt, Rinehart Winston

Title: **Mathematics in Context (MiC): Exploring Algebra in the Middle Grades**

MiC is a Standards Based Curriculum being used in South Dakota's Middle School Math Initiative. Discover how algebra is learned by describing relationships between variables in a variety of representations, connecting those relationships and using algebra as a tool to solve problems that occur in the real world.

Friday 1:30 pm

1:30-4:20 pm
Salons
Grade Level: K-12

Session: 29
Feb. 4, 2005

Speaker(s): Micheline Hickenbotham
Black Hills State University

Title: The Outdoor Education Journey

A partnership between a non-profit organization, outdoor education programs, educational destinations, and the BHSU/NSTA Student Chapter will help participants learn and find out about many environment and outdoor programs available in SD and other states as well as learning material and field trip ideas for classroom teachers. Each participant will receive a free backpack filled with new ideas and materials.

1:30-2:20 pm
Symposium
Grade Level: all

Session: 30
Feb. 4, 2005

Speaker(s): Nancy Berkas, Featured Speaker
NCTM Regional Representative

Title: NCTM: Working For, And With You!

As the Regional Affiliate Services Committee Representative, Nancy Berkas is the personal link between SDCTM and the NCTM headquarters. Come, listen, discuss and make suggestions.

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

Session: 31
Feb. 4, 2005

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

Title: Addressing a Few Math Standards Using the TI-83 and Activities

Topics of the session include piecewise graphing, inequalities, reflections, translations, dilations, histograms, box-and-whisker plots, regression equations and scatterplots. TI-83 calculators provided. Beginners are welcome. Will be followed with a second session (# 41) that has different activities.

Friday 1:30 pm

1:30-2:20 pm
Church B
Grade Level: K-8

Session: 32
Feb. 4, 2005

Speaker(s): Steven M. Rukusek
SDPB

Title: PBS Makes Teaching Easier

Highlights of shows that can be used in the classroom by math & science teachers.

1:30-3:20 pm
Church C
Grade Level: K-2

Session: 33
Feb. 4, 2005

Speaker(s): Cheri Eck
Box Cars & One-Eyed Jacks

Title: Shuffling Into Math

Session Cancelled

1:30-3:20 p.m.
Church C
Grade Level: all
Speaker(s): Mary O'Neill, Kelly & Becky Lane

Session 33A
Feb. 4, 2005

Title: Refresher Session for GeoSpatial Technologies

This is a refresher class for the GIS and GPS courses taught at the EROS Data Center for the past 7 summers.

1:30-2:20 pm
Church D
Grade Level: 7-12

Session: 34
Feb. 4, 2005

Speaker(s): Sandra K. Larson
East Dakota Educational Coop

Title: Puzzles and Brain Teasers

Puzzles and brainteasers add fun, creativity and learning while engaging students in discovery and explorations. Construct a puzzle and unlock its mysteries.

Friday

1:30 pm

1:30-3:20 pm

YWCA

Grade Level: 8-12

Session: 35

Feb. 4, 2005

Speaker(s): Marilyn Rindfuss, Featured Speaker
Mathematics Consultant

Title: A Non-Standard Approach to Absolute Value Standards

This session will focus on an alternate approach to teaching absolute value equations and inequalities that will allow virtually all students to achieve success with this difficult topic. Two additional algebra "shortcuts" will be introduced that can allow teachers to spend more time on the big issues in algebra courses. Handouts will be provided, and additional materials will be sent to teachers who request them via e-mail.

1:30-3:20 pm

Mobile Science Lab

Repeat of # 89

Grade Level: 5-9

Session: 36

Feb. 4, 2005

Speaker(s): Jerry Opbroek, Bob Vanderlinde
SD Mobile Science Lab

Title: Crime Scene Analysis (Criminalistics) for Grades 5-9

CSI-South Dakota!!! Learn how to develop a forensic science activity where students analyze blood type, perform a chemical analysis on a mysterious substance found at the crime scene, and identify ink from a ransom note. It's great science and students get excited about playing the role of a CSI agent.

Friday

2:30 pm

2:30-3:30 pm

Ballroom A

Grade Level: all

Session: 37

Feb. 4, 2005

Speaker(s): Nancy Berkas, Featured Speaker
NCTM Regional Representative

Title: Powerful Practices in Mathematics and Science

Developed under the direction of Drs. Carpenter and Romberg at the University of Wisconsin, this research-based CD-Rom product will be explored by and distributed to all participants.

Friday

2:30 pm

2:30-4:20 pm

Ballroom B

Grade Level: K-5

Session: 38

Feb. 4, 2005

Speaker(s): Penny Roberts, Featured Speaker
Muhlenberg County School System

Title: How Well Do You Know Your Math Students?

Create a student profile by using a variety of authentic assessments in your mathematics classroom. Really get to KNOW your students as mathematicians.

2:30-3:20 pm

Ballroom C

Grade Level: 7-12

Session: 39

Feb. 4, 2005

Speaker(s): Bob Pacyga
Prentice-Hall

Title: Prentice Hall's Newest Technology in Science

This will be a presentation on Prentice Hall's newest interactive technology in the Science Classroom.

Friday 2:30 pm

2:30-3:20 pm
Symposium
Grade Level: K-12

Session: 40
Feb. 4, 2005

Speaker(s): Anne Thompson
SD Dept. of Education

Title: What's Up in SD Mathematics

A review of the "new" SD Mathematics Content Standards and state-wide math initiatives.

2:30-3:20 pm
Church A
Grade Level: 9-12

Session: 41
Feb. 4, 2005

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

Title: Addressing a Few Math Standards Using the TI-83 and Activities

This session will cover topics and activities which were not covered in Session 31. Attendance at Session 31 is not a prerequisite.

2:30-3:20 pm
Church B
Grade Level: K-12

Session: 42
Feb. 4, 2005

Speaker(s): Ken Graupmann
Kadoka Schools

Title: El Nino

Learn what causes the weather phenomena known as El Nino.

2:30-3:20 pm
Church D
Grade Level: 7-12

Session: 43
Feb. 4, 2005

Speaker(s): Larry Browning, [Judy Vondruska](#)
SDSU

Title: Telescopes and Astronomy Opportunities at SDSU

Twenty teachers will have the opportunity to build and buy a quality refractor telescope and eyepiece for about \$50. In addition you can learn about how to become involved with SDSU's remote observatory.

Friday 3:30 pm

3:30-4:20 pm
Ballroom C
Grade Level: 6-8 & C

Session: 44
Feb. 4, 2005

Speaker(s): Eleanor M. Thomas
Holt, Rinehart Winston

Title: Mathematics in Context (MiC): Building Number Sense Using Models as Tools

MiC is a Standards Based Curriculum being used in South Dakota's Middle School Math Initiative. Learn how concepts of magnitude, order, computation, and relationships among numbers and their representations are developed gradually and integrated with other number representations using models to support understanding.

3:30-4:20 pm
Symposium
Repeat of # 75
Grade Level: 6-12

Session: 45
Feb. 4, 2005

Speaker(s): Tom Merrill
Yankton Middle School

Title: Science Olympiad

Team competition in Science, Math, & Engineering.

Friday 3:30 pm

3:30-4:20 pm **Session: 46**
Church A **Feb. 4, 2005**
Grade Level: 9-12

Speaker(s): Scott Fossum
Tech Prep/Mitchell

Title: Integrating Math and Career & Technical Education

Participants will have an opportunity to learn about strategies and resources that help to integrate math into a contextual environment and CTE courses.

Friday 3:30 pm

3:30-4:20 pm **Session: 49**
YWCA **Feb. 4, 2005**
Grade Level: 11-C

Speaker(s): Dan Van Peurse
USD

Title: Stereographic Vision and the Pulfrich Effect

We will demonstrate the Pulfrich Effect and describe it with a mathematical model involving parametric linear equations.

Friday 3:30 pm

3:30-4:20 pm **Session: 47**
Church B **Feb. 4, 2005**
Grade Level: K-C

Speaker(s): Brant G. Miller
Douglas Middle School

Title: Science Inquiry in a K-12 Classroom: Examples from DLESE

DLESE is the Digital Library for Earth Systems Education. Inquiry in your classroom is easy with the right materials. Learn how to access dozens of high quality inquiry lessons, activities and modules through a free website.

Friday 3:30 pm

3:30-4:20 pm **Session: 50**
Boardroom **Feb. 4, 2005**
Grade Level: All

Speaker(s): Jerry Loomer
Rapid City Central

Title: AAPT Business Meeting

SD Section of the American Association of Physics teachers annual meeting.

3:30-4:20 pm **Session: 48**
Church C **Feb. 4, 2005**
Grade Level: 5 & C

Speaker(s): Marvin E. Gamble
USD

Title: Journaling from Elementary to College

I will discuss how elementary 4th and 5th grade students are journaling with preservice college students in a math for elementary teachers course.

3:30-4:20 pm **Session: 51**
Mobile Science Lab **Feb. 4, 2005**
Repeat of # 74

Grade Level: 5-9

Speaker(s): Jerry Opbroek, Bob Vanderlinde
SD Mobile Science Lab

Title: Vitamin C Analysis of common Foods and Drinks

Which has more Vitamin C - an orange, a grapefruit, a kiwi or a tomato? The answer might surprise you! During this session you will experimentally determine the Vitamin C content of a variety of fruits and vegetables using titration. This lab can be adapted for students in grades 5 through college. Lab extensions will be discussed.

Friday 4:30 pm

4:30-5:30 pm **Session: 52**
Salons **Feb. 4, 2005**
Grade Level: All

Speaker(s): Mark Farrand, President
SDSTA

Title: SDSTA Business Meeting

Friday 4:30 pm

4:30-5:30 pm **Session: 53**
Symposium **Feb. 4, 2005**
Grade Level: All

Speaker(s): Chuck Holmstrom, President
SDCTM

Title: SDCTM Business Meeting

Friday 5:00 pm

5:00-6:30 pm **Session: 54**
Lobby area **Feb. 4, 2005**

Reception

Sponsored by Holt, Rinehart & Winston

Friday 7:00 pm

7:00-9:00 pm **Session: 55**
Ballrooms **Feb. 4, 2005**
Grade Level: All

Speaker: Rick Melmer, Featured Speaker
SD Secretary of Education

BANQUET

Dr. Rick Melmer, the Secretary of the Department of Education for South Dakota, will be the banquet speaker. Dr. Melmer will address his assessment of and vision for mathematics and science education in South Dakota.

Friday Evening

After the Banquet **Session: 56**
TBA **Feb. 4, 2005**
Grade Level: All

Speaker(s): Judy Vondruska, Ron Dyvig, Jerry
Opbroek SDSU & SD Mobile Science Lab

Title: Star Party-Friday Night

The SDSU Fillbrandt Observatory, the Badlands Observatory and the Mobile Science Lab will jointly host a star party Friday evening (weather permitting). Learn to identify the major constellations, view Saturn and a variety of deep-sky objects. Several telescopes and pairs of binoculars will be available for participant use. Participants are encouraged to bring their own telescopes and binoculars as well.

Saturday 7:00 am

7:00-8:00 am
Ballroom C
Grade Level: All Awardees

Session: 57
Feb. 5, 2005

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

Title: Presidential Awardee 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
Ballroom A
Grade Level: K-12

Session: 58
Feb. 5, 2005

Speaker(s): Judy Vondruska,
SDSU & SD Mobile Science Lab

Title: Simulation of Sonar/Radar Surface Mapping

Participants will collect depth data from a model planetary surface and use it to create a color-coded surface map and a 3-D surface model using MS-Excel. Applications to earth and space science will be discussed.

Saturday 8:30 am

8:30-10:20 am
Ballroom B
Grade Level: K-5

Session: 59
Feb. 5, 2005

Speaker(s): Penny Roberts, Featured Speaker
Muhlenberg County School System

Title: Math Detectives Needed!

Three criminals are on the loose, and YOU are needed for the case. Use probability within a real-life context to determine which criminal is guilty.

Saturday 8:30 am

8:30-9:20 am
Ballroom C
Grade Level: K-12

Session: 60
Feb. 5, 2005

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

Title: Earn and Spend Someone Else's Money

Tips to help complete the Presidential Award Application will be given.

8:30-11:20 am
Salons
Grade Level: 4-8

Session: 61
Feb. 5, 2005

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

Title: Be a Bird-Brain with Flying WILD!

Come join us for a hands-on session of activities about birds. Participants will receive a copy of the Flying WILD curriculum supplement and a taste of the traditional Project WILD Activities.

8:30-10:20 am
Symposium
Grade Level: 3-12

Session: 62
Feb. 5, 2005

Speaker(s): Marilyn Rindfuss, Featured Speaker
Mathematics Consultant

Title: Writing Classroom Assessments

This session will examine the attributes of high quality mathematics and science problems/questions. Examples, checklists, and resources will be provided and discussed, and the entire presentation will be made available to those participants who request it by e-mail.

Saturday 8:30 am

8:30-10:20 am **Session: 63**
Church A **Feb. 5, 2005**
Grade Level: 7-C

Speaker(s): Rocky Von Eye
Dakota Wesleyan University

Title: TI Interactive Integrated Computer Software for Math and Science

This is a program that enables high school and college students and teachers to investigate ideas in mathematics and science. There are interactive lessons that encourage exploration, visualization, data analysis, and writing. Students will improve problem-solving skills while creating great-looking homework papers.

8:30-10:20 am **Session: 64**
Church B **Feb. 5, 2005**

Repeat #18

Grade Level: 5-9

Speaker(s): Sheryl M. Beglinger
Comprehensive Center Region VI

Title: Double Digit Multiplication Madness

Did you know that there are 9 ways of doing double-digit multiplication? Come and have some fun.

Saturday 8:30 am

8:30-9:20 am **Session: 65**
Church C **Feb. 5, 2005**
Grade Level: 4-C

Speaker(s): Ken Graupmann
Kadoka Schools

Title: Become a Scool School & Work with NASA

Several NASA Programs will be presented that teachers can use in their classroom. There will also be information on NASA workshops.

Saturday 8:30 am

8:30-9:20 am **Session: 67**
YWCA **Feb. 5, 2005**
Grade Level: All ages

Speaker(s): Becky Umenthum
Belle Fourche Middle School

Title: Easy Origami

Learn to make an origami book and a magic ring. These projects are quick and easy to do.

8:30-9:20 am **Session: 68**
Church D **Feb. 5, 2005**
Grade Level: 5-12

Speaker(s): Julie Olson & Jerry Opbroek
Mitchell Senior High

Title: "WOW" Demonstrations in Physical Science

Easy demonstrations to stimulate inquiry and introduce physical science units. Easily found or made equipment.

Saturday 9:30 am

9:30-10:20 am **Session: 69**
Ballroom A **Feb. 5, 2005**
Grade Level: 10-12

Speaker(s): Joel D. Rauber
Dept. of Physics, SDSU

Title: Adding Vectors with MS-Word

This is a workshop on the use of MS-Word for adding vectors. Participants will learn the basics of using the drawing package for the addition of vectors via the "head-total" method and/or magnitude-direction methods without the need for trigonometric calculation.

Saturday 9:30 am

9:30-10:20 am **Session: 70**
Ballroom C **Feb. 5, 2005**
Grade Level: 9-C

Speaker(s): Michael L. Round
Theory of Constraints for Education

Title: The Joy of Math

The powerful thinking process of the Theory of Constraints will be used to demonstrate how massive improvement rapidly is possible for all students.

9:30-10:20 **Session: 17**
Church C **Feb. 5, 2005**
Grade Level: 9-12

Speaker(s): Karen Tuttle
Dakota Wesleyan University

Title: Oh Beans! Weighted Averages Are Just Too Hard to Teach

Using beans, bowls and cups we will take the participants through an activity that teaches about weighted averages. (Bring your calculator.)

9:30-10:20 am **Session: 72**
Church D **Feb. 5, 2005**

Repeat of # 6

Grade Level: K-8

Speaker(s): Donna M. Uttenhove
Harcourt School Publishers

Title: Motivating Students: Math and Science are FUN!

Games, strategies, and motivational tools to stimulate students to learn math & science--vocabulary, facts, graphs, and more.

Saturday 9:30 am

9:30-10:30 am **Session: 73**
YWCA **Feb. 5, 2005**
Grade Level: 3-C

Speaker(s): Becky Umenthum
Belle Fourche Middle School

Title: Unit Origami

Learn to fold an origami "unit" and then put the units together to make cubes and other shapes.

9:30-10:20 am **Session: 74**
Mobile Science Lab **Feb. 5, 2005**
Repeat of #51

Grade Level: 5-9

Speaker(s): Jerry Opbroek, Bob Vanderlinde
SD Mobile Science Lab

Title: Vitamin C Analysis of common Foods and Drinks

Which has more Vitamin C - an orange, a grapefruit, a kiwi or a tomato? The answer might surprise you! During this session you will experimentally determine the Vitamin C content of a variety of fruits and vegetables using titration. This lab can be adapted for students in grades 5 through college. Lab extensions will be discussed.

Saturday 10:30 am

10:30-11:20 am **Session: 75**
Symposium **Feb. 5, 2005**
Repeat of # 45

Grade Level: 6-12

Speaker(s): Tom Merrill
Yankton Middle School

Title: Science Olympiad

Team competition in Science, Math, & Engineering.

Saturday 10:30 am

10:30-11:20 am Session: 76
Church A Feb. 5, 2005
Grade Level: 9-12

Speaker(s): Rocky Von Eye
Dakota Wesleyan University

Title: Matrices, Calculators, and Fantasy Basketball Leagues

We will enter data from basketball statistics into matrices and predict scores using matrix multiplication.

Saturday 10:30 am

10:30-11:20 am Session: 77
Church B Feb. 5, 2005
Repeat of # 23
Grade Level: 1-6

Speaker(s): Sheryl M. Beglinger
Comprehensive Center Region VI

Title: A Multitude of Math Games

Come take a break and have some fun playing many different math games.

10:30-11:20 am Session: 66
Church C Feb. 5, 2005
Grade Level: 9-12

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

Title: Geometry Make & Take

A make and take session for teachers who teach on a budget. Participants will not only receive the patterns/ideas for several of my home-made geometry aids, but will also be provided with the materials to have several ready to use on Monday.

10:30-11:20 am Session: 78
Church D Feb. 5, 2005
Grade Level: 5-12

Speaker(s): Ken Graupmann
Kadoka Schools

Title: Hands on Plastic

Work with a plastic scientific investigation kit and receive information on how to obtain a kit.

10:30-11:20 am Session: 79
YWCA Feb. 5, 2005
Grade Level: 5-C

Speaker(s): Becky Umenthum
Belle Fourche Middle School

Title: Advanced Origami

Learn to fold the "bow tie" unit to make an open cube and other shapes. I'll also have directions for some boxes and a pyramid that you can make.

Saturday NOON
12:00-1:00 pm Session: 80
Ballrooms Feb. 5, 2005
Grade Level: All

Speaker(s): Chuck Holmstrom & Mark Farrand

LUNCH

Saturday 1:30 pm

1:30-3:20 pm Session: 81
Ballroom A Feb. 5, 2005
Grade Level: K-5

Speaker(s): Penny Roberts, **Featured Speaker**
Muhlenberg County School System

Title: Help Students Become Better Readers in Your Mathematics Classroom

Students can become better readers AS YOU TEACH essential mathematics skills and concepts. Learn strategies for teaching mathematics vocabulary, text styles, reflection on learning, and more.

Saturday

1:30 pm

1:30-2:20 pm

Ballroom B

Grade Level: 7-12

Session: 82

Feb. 5, 2005

Speaker(s): Brandy Fenega
Watertown Senior High School

Title: Interactive Graphic Organizers

Come and look at some simple and fun ways to help students organize and remember key concepts.

1:30-2:20

Ballroom C

Grade Level: 6-12

Session: 83

Feb. 5, 2005

Speaker(s): Steve Caron
Aberdeen Central

Title: Summer Standards Course Wrapup

The participants from the Standards course taken at USDSU this summer will present their lessons incorporating the standards.

1:30-2:20 pm

Salons

Grade Level: K-C
Repeat of # 92

Session: 84

Feb. 5, 2005

Speaker(s): Melissa H. Horton, Featured Speaker
Wildlife Experiences, Inc.

Title: Let's Get Wild

Experience a truly "wild" presentation by Wildlife Experiences! They will have live birds for an up close and personal meeting. The focus of the presentation will be on the variety of birds found on our planet and their places in their native habitats. Birds are important indicators of environmental health, and thus are a natural way to discuss issues such as endangerment, environmental poisons and natural resource conservation. We will also discuss our school programs and how you can schedule them for your classroom.

1:30-2:20 pm

Symposium

Grade Level: 5-8

Session: 85

Feb. 5, 2005

Speaker(s): LeRoy Henderson
BHSU

Title: Virtual Circulatory System

Experience real-life demonstrations and observations of the heart and circulatory system.

1:30-3:20 pm

Church A

Grade Level: 7-12

Session: 86

Feb. 5, 2005

Speaker(s): Bob Pacyga
Prentice-Hall

Title: Prentice Hall's Newest Technology in Science

This will be a presentation on Prentice Hall's newest interactive technology in the Science Classroom.

1:30-3:20 pm

Church B

Grade Level: 9-12

Session: 87

Feb. 5, 2005

Speaker(s): Monica K. Knuppe & Rose McClaskey
Custer High School

Title: Pulley Lab-with modifications for SpEd

Compares and contrasts a fixed pulley to a block and tackle. Shows the relationship between force, distance & work. Uses graphing to interpret the results.

1:30-2:20

Church C

Grade Level: 1-6
Repeat of # 77

Session: 23

Feb. 5, 2005

Speaker(s): Sheryl M. Beglinger
Comprehensive Center Region VI

Title: A Multitude of Math Games

Come take a break and have some fun playing many different math games.

Saturday 1:30 pm

1:30-2:20 pm **Session: 88**
Church D **Feb. 5, 2005**
Grade Level: 9-12

Speaker(s): Jerry Loomer
Rapid City Central

Title: Fire Up with Model Rocketry

Participants will build, launch, and take home a reusable model rocket. They will receive curriculum materials and practical suggestions on fitting model rocketry into your present curriculum. You may bring your children to assist you in rocket building.

1:30-2:20 pm **Session: 89**
YWCA **Feb. 5, 2005**
Grade Level: 4-12

Speaker(s): Pamela M. Zubke
Waubay High School

Title: Maury Project: Pressure Blocks

Use Pressure blocks to explore air pressure and ocean currents. Handouts provided.

1:30-2:20 pm **Session: 90**
Board Room **Feb. 5, 2004**
Grade Level: 9-12

Speaker(s): Dr. Jeff Palmer & Chuck Holmstrom

Title: Summer Statistics & Probability Course Wrapup

The participants from the Statistics & Probability course taken at USDSU this summer will present their lessons incorporating the standards.

Saturday 1:30 pm

1:30-3:20 pm **Session: 91**
Mobile Science Lab **Feb. 5, 2005**
Repeat of # 36
Grade Level: 5-9

Speaker(s): Jerry Opbroek, Bob Vanderlinde
SD Mobile Science Lab

Title: Crime Scene Analysis (Criminalistics) for Grades 5-9

CSI-South Dakota!!! Learn how to develop a forensic science activity where students analyze blood type, perform a chemical analysis on a mysterious substance found at the crime scene, and identify ink from a ransom note. It's great science and students get excited about playing the role of a CSI agent.

Saturday 2:30 pm

2:30-3:20 pm **Session: 92**
Church C **Feb. 5, 2005**
Repeat of # 10
Grade Level: 5-7

Speaker(s): Sheryl M. Beglinger
Comprehensive Center Region VI

Title: Take the Fear Out of Fractions

Learn some techniques that will make fractions meaningful to your students.

Saturday
2:30-3:20 pm
Ballroom B

2:30 pm
Session: 92A
Feb. 5, 2005

Grade Level 7-12
Speaker(s): Cheryl Deese

Title: Explore Guided Inquiry Program

Explore how curriculum can foster the development of critical thinking skills and content knowledge through a guided inquiry approach. Sponsored by Herff-Jones.

2:30-3:20
Ballroom C
Grade Level: 9-12

Session: 93
Feb. 5, 2005

Speaker(s): Jay H. Berglund
Gettysburg High School

Title: Barbie Bungee Jumping

Participate in a classroom activity to create a mathematical model needed to design a bungee jump for a Barbie doll using rubber bands for the bungee cord. Bring your graphing calculator.

Saturday

2:30 pm

2:30-3:20 pm
Salons

Session: 94
Feb. 5, 2005

Repeat of # 84
Grade Level: K-C

Speaker(s): Melissa H. Horton, Featured Speaker
Wildlife Experiences, Inc.

Title: Let's Get Wild

Experience a truly "wild" presentation by Wildlife Experiences! They will have live birds for an up close and personal meeting. The focus of the presentation will be on the variety of birds found on our planet and their places in their native habitats. Birds are important indicators of environmental health, and thus are a natural way to discuss issues such as endangerment, environmental poisons and natural resource conservation. We will also discuss our school programs and how you can schedule them for your classroom.

Saturday

2:30 pm

2:30-3:20 pm
Symposium
Grade Level: 7-9

Session: 94A
Feb. 5, 2005

Speaker(s): Vanya Munce, Huron Middle School

Title: Geometry for Middle School Using String Art Designs

This is an overview of a geometry project culminating in the design and production of a string art project.

2:30-3:20 pm
YWCA
Grade Level: 8-9

Session: 95
Feb. 5, 2005

Speaker(s): Monica K. Knuppe & Rose McClaskey
Custer High School

Title: Light Lab Stations

This is a set up of stations made of easy to find materials to investigate the properties of light. This would be excellent for new teachers or teachers of limited materials.

2:30-3:20 p.m.
Church D
Grade Level: all

Session 96A
Feb. 5, 2005

Speaker(s): Denyse Barrett

Title: Meth- Signs & Symptoms

A presentation on the dangers of Meth and signs & symptoms of users and labs.

Saturday 2:30 pm

2:30-3:20 pm
YWCA
Grade Level: 7-12

Session: 96
Feb. 5, 2005

Speaker(s): Pamela M. Zubke
Waubay High School

**Title: Maury Project: Shallow Water
Ocean Waves**

Explore shallow water ocean waves. Bring an empty paper towel tube (or two). Handouts provided.

Saturday 3:45 pm

3:45-5:30 pm
Board room

Session: 97
Feb. 5, 2005

Facilitators: Mark Farrand & Chuck Holmstrom

Title: Joint Conference Board Meeting