

Program for 2003 Joint Conference

Thursday

7:00 PM

Friday

8:30 AM

7:00-9:00 PM Thursday **Session: 1**
Ballroom C **Grade Level: K-12**
Speaker(s): Jean Gomer, Facilitator
President, SD Council of Teachers of Mathematics

Title: Math Sharing Session
Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity/lesson.

7:00-9:00 PM Thursday **Session: 2**
Ballroom D **Grade Level: K-12**
Speaker(s): Ken Graupmann, Facilitator
President, SD Science Teachers Association

Title: Science Sharing Session
Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity/lesson.

7:00-8:00 PM Thursday **Session: 3**
Ballroom B **Grade Level: K-12**
Duplicate 37 & 89
Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA

Title: Fill Your Head With Space!!
Learn about NASA resources for both educators and students. Resources will include how to access NASA electronically via: websites, distance learning, and multimedia products. Teacher professional development opportunities and South Dakota NASA resources will also be discussed. NASA Handouts included.

7:00-9:00 PM Thursday **Session: 4**
Salon **Grade Level: K-12**
Speaker(s): Marie Steckelberg, Facilitator
J.A.M.E.S. Project

Title: Getting Up to Date with the J.A.M.E.S. Project
J.A.M.E.S. Project participants will meet to share results of past experiments and plan for continuing projects.

8:30-9:20 AM Friday **Session: 5**
Ballroom B **Grade Level: 11-12**
Speaker(s): Barb J. Hascall and Max E. Hodgen
Parker School

Title: Modeling Periodic Behavior Using the CBR
Use the CBR and a pendulum to create a sine curve. Then use the curve to write a sine equation for the phase shift and calculate the frequency.

8:30-10:20 AM Friday **Session: 6**
Ballroom C **Grade Level: 3-8**
Speaker(s): Donna J. Long, CTB/McGraw-Hill
FEATURED SPEAKER

Title: Using Data to Improve Student Learning
This session is designed to help participants better understand and use test information to inform mathematics instruction in the classroom and improve student learning. Discussion will center on how to interpret test results and then link this information directly to instructional activities related to the South Dakota Mathematics Standards.

8:30-9:20 AM Friday **Session: 7**
Ballroom D **Grade Level: 7-12**
Speaker(s): Lloyd E. Trautmann and Paula Kurtenbach
DIAL/ILC

Title: Teaching Science on the DDN
How to handle science topics and laboratory experiences while teaching on V-Tel.

Friday 8:30/9:30 AM

8:30-9:20 AM Friday Session: 8
YWCA-A Grade Level: K-2
Speaker(s): M. Susan McWilliams
SDSU

Title: **Authentic Assessment of Science Conceptual Understandings in K-2 Education**

This session will be about using digital camera to capture process and experience, interview techniques to provide evidence of knowledge and student artifacts to document science inquiry journeys.

8:30-9:20 AM Friday Session: 9
Church C Grade Level: 2-9

Duplicate 67

Speaker(s): Angelo Casaburri, Aerospace Education Services Program, NASA

Title: **What's Cooking In Space?**

Eating and drinking are favorite everyday activities on Earth. However, how they are packaged and eaten is greatly affected by the unique microgravity environment of space. Learn about food preparation and menu development for space flight. Educator's Guide included.

Friday 9:30 AM

9:30-11:20 AM Friday Session: 10
Ballroom B Grade Level: K-6
Speaker(s): David Willey, University of Pittsburgh
FEATURED SPEAKER

Title: **K-6 Physics**

Hands-on Physics

9:30-11:20 AM Friday Session: 11
Symposium Grade Level: 9-C
Speaker(s): Curtis Olson, USD, moderator

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

Representatives from the mathematics departments of the six state 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 Friday Session: 12
YWCA-A Grade Level: K-2
Speaker(s): M. Susan McWilliams
SDSU

Title: **Reading, Writing and Doing Science in the Primary Grades**

Come to see a PowerPoint presentation, mess around with "stuff" and have a dialogue about implementing inquiry in the primary grades.

9:30-11:20 AM Session: 13
Church A Friday

Grade Level: 3-8

Speaker(s): Becky Umenthum
Belle Fourche Middle School

Title: **Hands-on Activities to Explore Probability**

Come and have fun exploring the world of probability. We'll be using lots of manipulatives - coins, probability cubes, spinners, cards, colored cubes, etc. We'll also be using the probability simulation program on the TI-73 graphing calculators. You'll receive a handout containing all the activities.

9:30-10:20 AM Friday Session: 14
Church B Grade Level: 5-9
Speaker(s): Micheline A. Hickenbotham, BHSU

Title: **Science Explorations @ a Mouse Click**

Virtual field trips and simulations that encourage explorations of science topics for the middle level learners. Supporting activities in all content areas (life, physical, earth/space, and environment) will be provided including the NSE and SD standards.

9:30-10:20 AM Friday Session: 15
Church C Grade Level: K-12

Duplicate 59

Speaker(s): Angelo Casaburri, Aerospace Education Services Program, NASA

Title: **Inquiry in a Box**

Bigger than a breadbox, a Glovebox is a self-contained research laboratory that is coming soon to a Space Station near you! Learn about NASA's Gloveboxes and some inquiry-based activities you can use in your classroom. Educator's Guide and artwork to make 4 lab boxes included.

Friday 9:30/10:00/10:30 AM

9:30-10:20 AM Friday **Session: 16**
Church D **Grade Level: K-12**
Duplicate 39
Speaker(s): Leo Keiser, Jared Olson, Donna Hardie
Beresford High School

Title: New Teaching Tool for the 21st Century

This session will show teachers a new electronic approach to teaching at any grade level. Demonstrations will be given for Geometry, Advanced Algebra, and even 1st grade; however, it is adaptable to any subject or grade level. The Classroom Performance System (CPS) is a wireless response system that gives the instructor immediate feedback from every student in the class. It is used in K-12 classrooms as a lecture, evaluation, grading, review, and testing tool. Students respond to subjective or objective questions with their wireless remote. Tests, quizzes, and homework is graded in a matter of seconds.

Friday 10:00 AM

10:00-10:50 AM Friday **Session: 17**
Arena **Grade Level: K-12**
Duplicate 35 & 49
Speaker(s): Siouxland Heritage Museum Staff,
Education Dept.

Title: Starlab-Gaze into the night sky and discover the secrets of constellations.

Starlab is a portable planetarium which allows indoor simulation of the night sky and is recommended for both children and adults. Starlab gives students the tools to begin their own sky explorations. Maximum 25 participants per session. Tickets will be available for each showing from the conference registration desk. (First come, first served basis)

Friday 10:30 AM

10:30-11:20 AM Friday **Session: 18**
Ballroom C **Grade Level: 7-12**
Speaker(s): Laurie Boswell, Profile Jr/Sr High
School Bethlehem, NH
FEATURED SPEAKER

Title: Geometry Projects

A sampling of geometry projects will be shared from years of incorporating this form of student work. Rubrics will be shared.

10:30-11:20 AM Friday **Session: 19**
Ballroom D **Grade Level: K-6**
Speaker(s): Mary Graupmann, Nancy Weller,
Kadoka School District

Title: Junk Science

See how to use common household items to teach science standards.

10:30-11:20 AM Friday **Session: 20**
Salon **Grade Level: 6-12**
Speaker(s): Patrick Wenzl, Holt, Rinehart &
Winston

Title: Science and the Struggling Reader

Examine nine different skills or thought patterns that help students successfully read and understand their science books. Specific activities and exercises will be explored.

10:30-11:20 AM Friday **Session: 21**
YWCA-A **Grade Level: K-2**
Speaker(s): M. Susan McWilliams & Kay Cutler
SDSU

Title: Guided Reading, Interactive Writing and Word Study Integrated with Science

Come see a PowerPoint and check out some books and student work from a summer Nature Reading Camp at SDSU for K-2 students.

Friday 10:30/11:00 AM/12:00PM

10:30-11:20 AM Friday Session: 22
Church C Grade Level: K-12

Duplicate 73

Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA

**Title: Experiment With Micro-Mechanical
Systems In A Weightless Environment
-- Toys In Space**

Investigate the actions of a variety of children's toys in microgravity for classroom comparison with the actions of similar toys on Earth. Video Resource Guide included

Friday 11:00 AM

11:00-11:50 AM Friday Session: 23
Arena Grade Level: K-12

Duplicate 40

Speaker(s): Siouxland Heritage Museum Staff,
Education Dept.

Title: Starlab-Lakota Star Stories

A special planetarium program that focuses on the shapes the Lakota people interpreted in the night sky and the star legends associated with them. Starlab is a portable planetarium which allows indoor simulation of the night sky. Maximum 25 participants per session. Tickets will be available at the conference registration desk (first-come, first served basis).

Friday 12:00 Noon

12 Noon Friday Session: 24
Arena Grade Level: All

Speaker(s): Jean Gomer and Ken Graupmann

Title: **LUNCH**

Friday 1:30 PM

1:30-3:20 PM Friday Session: 25
Ballroom B Grade Level: 7-12

Speaker(s): Kim Bluy
FEATURED SPEAKER

Title: Notebooking for Science

Strategies in using notebooking as another method of assessment science.

1:30-4:20 PM Friday Session: 26
Ballroom C Grade Level: 8-10

Speaker(s): Laurie Boswell, Profile Jr/Sr High
School Bethlehem, NH
FEATURED SPEAKER

**Title: Algebra Activities: Disguise the
Practice and Engage All Students**

We've taught it but students still need to practice. These activities incorporate mental math while practicing essential skills. They also allow ALL students to experience success in algebra.

1:30-3:20 PM Friday Session: 27
Ballroom D Grade Level: 5-8

Speaker(s): Ken Graupmann, Kadoka Schools

Title: Wisconsin Fast Plants

Hands on science for middle level students.

1:30-3:20 PM Friday Session: 28
Salon A & B Grade Level: 3-5

Speaker(s): Donna J. Long, CTB/McGraw-Hill
FEATURED SPEAKER

**Title: Answer: 216 Potatoes on a Platter--Is
That Reasonable?**

How do we teach reasonableness? Why won't students check back and look at their answers? Checking for reasonableness is an important part of the problem-solving process. Come learn more about reasonableness.

Friday 1:30 PM

1:30-3:20 PM Friday **Session: 29**
Symposium **Grade Level: 9-12**
Speaker(s): Larry M. Browning & Arlyn Thomas,
SDSU

Title: C3P-Summer 2002 Follow-up
Materials from the comprehensive conceptual curriculum for Physics (C3P) for the teaching of heat and energy will be presented. This is part of an Eisenhower sponsored program for summer 2002.

1:30-4:20 PM Friday **Session: 30**
YWCA A **Grade Level: 1-12**
Speaker(s): Andy P. Johnson, Rose Emanuel,
Charles Standen, Center for Math and
Science Education BHSU

**Title: A Close Look at Colored Light:
Teaching Color Concepts via Inquiry
Methods.**

This session will give an example of the CPU inquiry pedagogy which uses interesting color mixing phenomena, special computer software, and carefully designed lessons to teach basic ideas of color mixing. You will learn about light and color, and see a new way to teach light and color.

1:30-2:20 AM Friday **Session: 31**
YWCA B **Grade Level: K-12**
Duplicate 87
Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA

**Title: Rocketry -- In and Outside the
Classroom**
Learn about the history, scientific principles, and mathematics of rockets. Instructional techniques for small indoor, as well as larger outdoor rockets made from inexpensive materials will be investigated. Propulsion, guidance, controls, and safety provided. Educator's Guide included

1:30-3:20 PM Friday **Session: 32**
Church A **Grade Level: 9-12**
Speaker(s): Jensi Andrus and Peggy Holmquest,
Watertown Senior High

**Title: Using Vernier Probes and TI-83+
Calculators in Biology**
Try some basic activities for getting started with calculators in the science classroom.

Friday 1:30/2:30 PM

1:30-2:20 PM Friday **Session: 33**
Church B **Grade Level: 7-C**
Duplicate 66
Speaker(s): Rocky Von Eye, Dakota Wesleyan
University

**Title: Junk Mail Math #1 (Credit
Applications)**
Don't throw it away! Make a math problem from your junk mail.

1:30-3:20 PM Friday **Session: 34**
Church C **Grade Level: 2-6**
Speaker(s): Brenda Danielson, Deubrook Area
Elementary School

Title: Life is a Story Problem
Problem solving strategies will be demonstrated using story problems from life. It helps students see not only how to do story problems, but why to do them.

1:30-2:20 PM Friday **Session: 35**
Arena **Grade Level: K-12**
Duplicate 17 & 49
Speaker(s): Siouxland Heritage Museum Staff,
Education Dept.

**Title: Starlab-Gaze into the night sky and
discover the secrets of constellations.**
Starlab is a portable planetarium which allows indoor simulation of the night sky and is recommended for both children and adults. Starlab gives students the tools to begin their own sky explorations. Maximum 25 participants per session. Tickets will be available for each showing from the conference registration desk. (First come, first served basis)

Friday 2:30 PM

2:30-3:20 PM Friday **Session: 36**
Ballroom D **Grade Level: 8-12**
Speaker(s): Cindy Kroon, Montrose High School

Title: Fun & Games in Algebra !!!
(Back by popular demand from 2002) Play games and activities to help students learn equation solving, coordinate graphing, Pythagorean Theorem, quadratic equation and more.

Friday

2:30 PM

2:30-3:20 PM Friday

YWCA B

Duplicate 3 & 89

**Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA**

Title: Fill Your Head With Space!!

Learn about NASA resources for both educators and students. Resources will include how to access NASA electronically via: websites, distance learning, and multimedia products. Teacher professional development opportunities and South Dakota NASA resources will also be discussed. NASA Handouts included.

2:30-3:20 PM Friday

Church B

Duplicate 72

**Speaker(s): Rocky Von Eye, Dakota Wesleyan
University**

**Title: Junk Mail Math #2 (Telemarketer Story
Problems)**

Political ads, insurance applications, inserts in magazines, telephone calls--everything is a math problem

2:30-3:20 PM Friday

Church D

Duplicate 16

**Speaker(s): Leo Keiser, Jared Olson, Donna Hardie,
Beresford High School**

**Title: New Teaching Tool for the 21st
Century**

This session will show teachers a new electronic approach to teaching at any grade level. Demonstrations will be given for Geometry, Advanced Algebra, and even 1st grade; however, it is adaptable to any subject or grade level. The Classroom Performance System (CPS) is a wireless response system that gives the instructor immediate feedback from every student in the class. It is used in K-12 classrooms as a lecture, evaluation, grading, review, and testing tool. Students respond to subjective or objective questions with their wireless remote. Tests, quizzes, and homework are graded in a matter of seconds.

Friday

2:30/3:30 PM

2:30-3:20 PM Friday

Arena

Duplicate 23

**Speaker(s): Siouxland Heritage Museum Staff,
Education Dept.**

Title: Starlab-Lakota Star Stories

A special planetarium program that focuses on the shapes the Lakota people interpreted in the night sky and the star legends associated with them. Starlab is a portable planetarium which allows indoor simulation of the night sky. Maximum 25 participants per session. Tickets will be available at the conference registration desk (first-come, first served basis).

Friday

2:30 PM

3:30-4:20 PM Friday

Ballroom B

**Speaker(s): Jim Foley, NCTM Affiliate Services
Committee**

FEATURED SPEAKER

Title: I FinallyGet to Teach Reform Algebra

After a number of years trying to get my local school district to adopt some kind of reform Mathematics program, I retired and then got a chance to teach College Preparatory Mathematics (CPM) at the Community College. I will share what I like and what I do not like in the program.

3:30-4:20 PM Friday

Salon

**Speaker(s): Patrick Wenzl,
Winston**

Session: 42

Grade Level: 6-10

Holt, Rinehart &

Title: Science Puzzlers, Twisters & Teasers

Wakeup sleep brains in the morning, focus school-weary brains in the afternoon & add an air of mystery to the science classroom any time of day with science puzzlers, twisters and teasers.

Friday

3:30 PM

3:30-4:20 PM Friday **Session: 43**
Symposium **Grade Level: 8-C**
Speaker(s): Larry M. Browning, Oren P. Quist,
South Dakota State University

Title: AAPT Meeting
Business Meeting

3:30-4:20 AM Friday **Session: 44**
YWCA B **Grade Level: K-9**
Duplicate 79
Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA

Title: Make The Sky Your Classroom –Go Fly a Kite!

Learn how to fly and control airplanes, aircraft, lighter-than-air aircraft and kites by constructing them from inexpensive materials. Educator's Guide included.

3:30-4:20 PM Friday **Session:45**
Church A **Grade Level: 9-12**
Speaker(s): Jensi Andrus and Peggy Holmquest,
Watertown Senior High

Title: Genetics Activities
Activities and models to raise understanding of genetic concepts.

3:30-4:20 PM Friday **Session: 46**
Church B **Grade Level: 10-C**
Speaker(s): Michael T. Catalano, Dakota Wesleyan
University

Title: Flatland, Coneland, and Canland
How is geometry different on a cone or a can (cylinder) than on a plane? In this session, we'll go through a variety of hands-on activities using easy paper, scissors, and tape manipulatives, exploring these three "lands."

3:30-4:20 PM Friday **Session: 47**
Church C **Grade Level: 6-12**
Speaker(s): Marie Steckelberg & Jerry Opbroek,
USD

Title: Science Olympiad 2003
Learn about a fun, exciting way to get your students involved in science. Science Olympiad is academic excellence with an athletic flair! !

Friday

3:30/4:30/7:00 PM

3:30-4:20 PM Friday **Session: 48**
Church D **Grade Level: K-5**
Speaker(s): Nancy J. Barondeau, Edmunds Central
School

Title: Roll on & on & on & on
A visual method to demonstrate finding average (for the primary grades) by rolling balls down a ramp.

3:30-4:20 PM Friday **Session: 49**
Arena **Grade Level: K-12**
Duplicate 17 & 35
Speaker(s): Siouxland Heritage Museum Staff,
Education Dept.

Title: Starlab-Gaze into the night sky and discover the secrets of constellations.

Starlab is a portable planetarium which allows indoor simulation of the night sky and is recommended for both children and adults. Starlab gives students the tools to begin their own sky explorations. Maximum 25 participants per session. Tickets will be available for each showing from the conference registration desk. (First come, first served basis)

Friday

4:30 PM

4:30 PM Friday **Session: 50**
Salon **Grade Level: All**
Speaker(s): Jean Gomer, President

Title: SDCTM Business Meeting

4:30 PM Friday **Session: 51**
Symposium **Grade Level: All**
Speaker(s): Ken Graupmann, President

Title: SDSTA Business Meeting

Friday

7:00 PM

7:00 PM Friday **Session: 52**
Ballrooms **Grade Level: All**

BANQUET

Speaker: David Wylie,
University of Pittsburgh

Saturday

8:30 AM

8:30-10:20 AM Saturday Session: 53
Ballroom C Grade Level: K-2
Speaker(s): Donna J. Long, CTB/Mcgraw-Hill
FEATURED SPEAKER

Title: I Read! I Write! I Solve! Making Connections in Mathematics

This session will use children's literature to teach writing and problem solving skills. This is a very interactive session with handout included.

8:30-9:20 AM Saturday Session: 54
Ballroom D Grade Level: 7-12
Speaker(s): William E. Gripentrog, Watertown High School

Title: Teaching Geometry the Write Way

The session will display how writing is extensively integrated into geometry.

8:30-9:20 AM Saturday Session: 55
Salon Grade Level: K-12
Speaker(s): Diana McCann & Ramona Lundberg
Bon Home HS & Deuel HS

Title: Presidential Awards and You

The coordinators of the Presidential Awards program in SD will explain the changes in the application process and tell you how you can get help with the application.

8:30-9:20 AM Saturday Session: 56
Symposium Grade Level: K-12
Speaker(s): Andy P. Johnson, Black Hills State University

Title: CAMSE's Professional Development Leadership Institute

The Center for Advancement of Math and Science Education (CAMSE) at BHSU is offering a Leadership Institute for expert teachers who have classroom experience with inquiry based math or science materials, and who are interested in helping other teachers to use them. Learn more about CAMSE and the upcoming PD institutes at this session.

Saturday

8:30/9:30 AM

8:30-9:20 AM Saturday Session: 57
YMCA-A Grade Level: 5-8
Speaker(s): Cindy Kroon, Montrose High School

Title: Hands-on Geometry for Middle Grades

Quick and easy geometry demonstrations and activities that you can do on a shoestring budget.

8:30-9:30 AM Saturday Session: 58
Church C Grade Level: 9-12
Speaker(s): Mike Barondeau, Edmunds Central School

Title: Making and Using Thermocouples

Participants will learn how to weld and use thermocouples to measure high temperatures to map the bunsen burner flame.

8:30-9:20 AM Saturday Session: 59
Church D Grade Level: K-12
Duplicate 15
Speaker(s): Angelo Casaburri, Aerospace Education Services Program, NASA

Title: Inquiry in a Box

Bigger than a breadbox, a Glovebox is a self-contained research laboratory that is coming soon to a Space Station near you! Learn about NASA's Gloveboxes and some inquiry-based activities you can use in your classroom. Educator's Guide and artwork to make 4 lab boxes included.

Saturday

9:30 AM

9:30-11:20 AM Saturday Session: 60
Ballroom B Grade Level: K-6
Speaker(s): Kim Bluy
FEATURED SPEAKER

Title: Notebooking for Science

Strategies in using notebooking as another method of assessment science.

Saturday

9:30 AM

9:30-10:20 AM Saturday Session: 61
Salon Grade Level: 7-12
Speaker(s): Jerry Loomer, Rapid City Central

**Title: Labels and Units, Where to Use
Capitals & Periods**

This workshop will focus on the correct use of labels and units. Many handouts and quizzes for students will be distributed.

9:30-10:20 AM Saturday Session: 62
Symposium Grade Level: 5-12
Speaker(s): Harry Everhart, Alpena School

Title: Mousetrap Racers

This will be a session to share information about Mousetrap Racers. A handout will include URL's for resources.

9:30-10:20 AM Saturday Session 63
YMCA-A Grade Level: 7-12
Speaker(s): Samra Trask and Cindy Kroon
Wall Middle School, Montrose High School

Title: Shake It Up Baby!

A hands-on investigation of heat generated by friction using TI-83 graphing calculators and CBL temperature probes. Participants will collect data and analyze it to connect math and physical science concepts.

9:30-10:20 AM Saturday Session: 64
Church A Grade Level: 7-C
Speaker(s): Mrs. Sheryl Allen, Dakota Wesleyan University

Title: Flexagons

History of flexagons and how to make them.

9:30-11:20 AM Saturday Session: 65
Church B Grade Level: 9-12
Speaker(s): Rose Emanuel, Lead-Deadwood High School

Title: Making and Reading Geologic Maps

Participate and take home several hands on activities designed to introduce the use of a Brunton compass, making geologic maps, and interpreting geologic maps in folded terrains.

Saturday

9:30/10:30 AM

9:30-10:20 AM Saturday Session: 66
Church B Grade Level: 7-C

Duplicate 33

Speaker(s): Rocky Von Eye, Dakota Wesleyan University

**Title: Junk Mail Math #1
(Credit Applications)**

Don't throw it away! Make a math problem from your junk mail.

9:30-10:20 AM Friday Session: 67
Church D Grade Level: 2-9

Duplicate 9

Speaker(s): Angelo Casaburri, Aerospace Education Services Program, NASA

Title: What's Cooking In Space?

Eating and drinking are favorite everyday activities on Earth. However, how they are packaged and eaten is greatly affected by the unique microgravity environment of space. Learn about food preparation and menu development for space flight. Educator's Guide included.

Saturday

10:30 AM

10:30-11:20 AM Saturday Session: 68
Ballroom C Grade Level: 6-12

Speaker(s): Jim Foley, NCTM Affiliate Services Committee

FEATURED SPEAKER

**Title: We Make a Difference: A History of
Math Education from 1957 Until Today**

A humorous look at math teaching from 1957 to today

10:30-11:20 AM Saturday Session: 69
Ballroom D Grade Level: K-12

Speaker(s): Mark Farrand, Rapid City Public Schools

Title: Students Teaching Students

High School science students prepare and present lessons and demos for second grade classrooms.

Saturday

10:30 AM

10:30-11:20 AM Saturday Session: 70
Symposium Grade Level: K-2
Speaker(s): M. Susan McWilliams, SDSU

Title: What Is Science Like in First Grade?
SDSU Pre-Service teachers will share their experiences teaching science lessons in the first-grade. They will describe lessons and assessments which show their expertise and creativity.

10:30-11:20 AM Saturday Session: 71
YWCA-A Grade Level: 8-10
Speaker(s): Sheila McQuade, O'Gorman High School

Title: Hands-on with Algebra Tiles
Take a new look at foiling and factoring with Algebra tiles.

10:30-11:20 AM Saturday Session: 72
Church B Grade Level: 7-C

Duplicate 38

Speaker(s): Rocky Von Eye, Dakota Wesleyan University

Title: Junk Mail Math #2 (Telemarketer Story Problems)

Political ads, insurance applications, inserts in magazines, telephone calls--everything is a math problem

10:30-11:20 AM Friday Session: 73
Church D Grade Level: K-12

Duplicate 22

Speaker(s): Angelo Casaburri, Aerospace Education Services Program, NASA

Title: Experiment With Micro-Mechanical Systems In A Weightless Environment -- Toys In Space

Investigate the actions of a variety of children's toys in microgravity for classroom comparison with the actions of similar toys on Earth. Video Resource Guide included

Saturday 12:00 Noon /1:30 PM

12 Noon Saturday Session: 74
Ballrooms Grade Level: All

LUNCH

Speaker(s): Jim Foley, NCTM Affiliate Services Committee

FEATURED SPEAKER

Remarks on NCTM's role in mathematics.

Saturday

1:30 PM

1:30-3:20 PM Saturday Session: 75
Ballroom B Grade Level: 7-12

Speaker(s): David Willey **FEATURED SPEAKER**
University of Pittsburg

Title: 7-12 Physics
Hands-on Physics

1:30-3:20 PM Saturday Session: 76
Ballroom C Grade Level: 6-8

Speaker(s): Laurie Boswell, Profile Jr/Sr High School Bethlehem, NH
FEATURED SPEAKER

Title: Collect, Display, and Analyze: Real Data for Real Middle School Students

We will explore a variety of graphical displays (bar, stem & leaf, box plots, scatter plots) using data from data collection activities. Researched data sets of interest to students will also be shared.

1:30-2:20 PM Saturday Session: 77
Salon 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.

Saturday

1:30 PM

1:30-2:20 PM Saturday **Session: 78**
Symposium **Grade Level: 6-12**
Speaker(s): John McEnelly, Wolsey Schools

Title: Let's Make Chapter One Interesting!
Use a Pendulum Lab to Have Students Experience the Scientific Method

1:30-2:20 AM Saturday **Session: 79**
YWCA B **Grade Level: K-9**

Duplicate 44

Speaker(s): Angelo Casaburri, Aerospace Education Services Program, NASA

Title: Make The Sky Your Classroom – Go Fly a Kite!

Learn how to fly and control airplanes, aircraft, lighter-than-air aircraft and kites by constructing them from inexpensive materials. Educator's Guide included.

1:30-2:20 PM Saturday **Session: 80**
Church A **Grade Level: 6-9**
Speaker(s): Paul R Kuhlman, Avon Public School

Title: Applications on the TI-73 graphing calculator

This session will deal with the various applications that can be downloaded for the TI-73. These include the geoboard and probability simulator.

1:30-3:00 PM Saturday **Session: 81**
Church B **Grade Level: 2-4**
Speaker(s): Brenda Danielson, Deubrook Area Elementary School

Title: 'Rithmetic, Reading, 'Riting, and Recreation

I will use children's literature, writing activities, games, and activities to enhance your math class.

Saturday

1:30 PM

1:30-3:20 PM Saturday **Session: 82**
Church C **Grade Level: K-12**
Speaker(s): Kristin M. Schultz, Jane Goodall Institute

Title: Roots and Shoots

Learn how Roots and Shoots, an environmental and humanitarian program for youth, will help expand and enrich your curriculum by using service learning.

1:30-2:20 PM Saturday **Session: 83**
Church D **Grade Level: 5-8**
Speaker(s): Rena Faye Norby, BHSU

Title: How Can We Make It Effective, Fun and Meet National Standards

This presentation will describe activities that preservice teachers learn at BHSU. Be prepared to "get your hands wet."

Saturday

2:30 PM

2:30-3:20 PM Saturday **Session 84**
Ballroom D **Grade Level: 7-12**
Speaker(s): Rocky Von Eye, Dakota Wesleyan University

Title: Matrices and Ball Games

Predict your scores using matrices.

2:30-3:20 PM Saturday **Session: 85**
Salon **Grade Level: 9-12**
Speaker(s): Rena Faye Norby, BHSU, Harlan Heitz, Ipswich, and Jerry Loomer, Rapid City Central

Title: Modeling Physics Summer Program

This is a presentation on "Modeling Physics Summer Programs."

Saturday 2:30/3:30 PM

2:30-3:20 PM Saturday Session: 86
Symposium Grade Level: K-12
Speaker(s): Chuck Holmstrom, Roosevelt HSI

Title: ABC's of Improving Test Scores
Come see how Roosevelt High School raised their 11th grade SAT scores, starting with A is for attitude.

2:30-3:20 AM Saturday Session: 87
YWCA A Grade Level: K-12
Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA

Title: Rocketry -- In and Outside the Classroom
Learn about the history, scientific principles, and mathematics of rockets. Instructional techniques for small indoor as well as larger outdoor rockets made from inexpensive materials will be investigated. Propulsion, guidance, controls, and safety provided. Educator's Guide included

Saturday 3:30 PM

3:30-4:20 PM Saturday Session: 88
Ballroom C Grade Level: All
Speaker(s): Ken Graupmann & Jean Gomer,
Facilitators

Title: Professional Development Opportunities in Math & Science
What kind of professional development opportunities are available to math and science teachers in the state of SD? Come and share ideas for conferences, inservice speakers, and grant ideas.

Saturday 3:30/4:30 PM

3:30-4:20 PM Saturday Session: 89
Ballroom B Grade Level: K-12
Duplicate 3 & 37
Speaker(s): Angelo Casaburri, Aerospace
Education Services Program, NASA

Title: Fill Your Head With Space!!
Learn about NASA resources for both educators and students. Resources will include how to access NASA electronically via: websites, distance learning, and multimedia products. Teacher professional development opportunities and South Dakota NASA resources will also be discussed. NASA Handouts included.

Saturday 4:30 PM

4:30-6:00 PM Saturday Session: 90
Boardroom Grade Level:
Speaker(s): Jean Gomer and Ken Graupmann
SDSTA-SDCTM

Title: SDSTA-SDCTM Joint Executive Board Meeting