

Program for 2004 Joint Conference

Thursday

7:00 pm

Friday

8:30 am

7:00-9:00 pm Thursday **Session: 1**
Ballroom B **Grade Level: K-12**
Speaker(s) **Ken Graupmann, Facilitator**
 SDSTA President

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

7:00-9:00 pm Thursday **Session: 2**
Ballroom C **Grade Level: K-12**
Speaker(s) **Jean Gomer, 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 Thursday **Session: 3**
Ballroom D **Grade Level: K-3**
Speaker(s) **Dianne Miller**
 SD Project Learning Tree

Title: Early Childhood and Project Learning Tree
 Introduce children to the wonders of environmental education at an early age. Activity guides will be available!

7:00-8:00 pm Thursday **Session: 4**
Symposium **Grade Level: All**
Speaker(s) **Jerry Loomer**
 AAPT

Title: AAPT Videos
Description: Videos entered in the photo contest will be available for viewing.

8:30-9:20 am Friday **Session: 5**
Ballroom B **Grade Level: K-6**
 Duplicate Session 66
Speaker(s) **Micheline Hickenbotham**
 Black Hills State University

Title: Making Sense of Multiplication
Description: Tired of having students not knowing their multiplication facts? Do you see confusion when they solve multi-digit multiplication? Explore the various representations to make sense of multiplication.

8:30-9:20 am Friday **Session: 6**
Ballroom C **Grade Level: K-12**
Speaker(s) **Larry Browning**
 SDSU

Title: Astronomy at SDSU
 Learn about SDSU's new remote observatory which should be online this summer. Learn how SD teachers and students can be involved in the use of the telescopes and astronomical research. Participants will also have the opportunity to complete a make-and-take astronomy project.

8:30-9:20 am Friday **Session: 7**
Ballroom D **Grade Level: 9-12**
 Duplicate Session 56
Speaker(s) **Mark M. Farrand**
 Rapid City Central

Title: Let's Get Tropical!
 I will share my experiences from five summers of leading high school students to Costa Rica on the ultimate ecotourism adventure!

Friday 8:30 am

8:30-9:20 am Friday **Session: 8**
Salons **Grade Level: 9-12**
Speaker(s) **Bob Schuh**
 McIntosh High School

Title: Applying Geometry to the Real World
The presentation will discuss several hands-on geometry activities which work well at the end of the year.

8:30-9:20 am Friday **Session: 9**
Symposium **Grade Level: 6-8**
Speaker(s) **Marlys B. Pearson**
 Edison Middle School, SF

Title: MATHCOUNTS
This nationally recognized math program and competition will keep your middle school students challenged and enthused--all the way to nationals in Chicago, with expenses paid by MATHCOUNTS.

8:30-9:20 am Friday **Session: 10**
Church A **Grade Level: 5-8**
Speaker(s) **Becky Umenthum**
 Belle Fourche Middle School

Title: Problem Solving in the Middle Grades
Help students develop problem solving skills by working in cooperative groups. Students solve problems in groups, present their solutions to the class. Handout of sample problems, cooperative group guidelines & rubrics for grading presentations.

8:30-10:20 am Friday **Session: 11**
Church B **Grade Level: 9-12**
Speaker(s) **Dave Kowal**
 Holt, Rinehart & Winston

Title: Labs, Labs, and More Labs for HS Science
Enrich your high school science classes with new labs from Holt's cutting edge biology, chemistry, physics, environmental science & physical science instructional programs. Door prizes & drawings.

Friday 8:30 am

8:30-9:20 am Friday **Session: 12**
Church C **Grade Level: 7-C**
 Duplicate Session 54
Speaker(s) **Marie L. Steckelberg, Asst. Professor**
 USD, JAMES Project

Title: JAMES Project
Joining Across Miles Environmental System--An exciting collaborative project that allows students to apply the scientific method, collect and share real data across the state.

8:30-9:20 am Friday **Session: 13**
Church D **Grade Level: 9-12**
Speaker(s) **Harlan J. Heitz**
 Ipswich High School

Title: Shadowing a Professional: What an Experience!!
Come share ideas about what you have done in shadowing experiences. I have done this for many years.

Friday 9:30 am

9:30-11:20 am Friday **Session: 14**
Ballroom B **Grade Level: K-5**
Speaker(s) **Betty Erickson**
 Kearsarge Regional School District, NH
 FEATURED SPEAKER

Title: Algebra Across the Primary Grades
Using the NCTM Navigations series to connect your math program brings understanding of algebra in the primary grades.

Friday

9:30 am

9:30-10:20 am Friday **Session: 15**
Ballroom C **Grade Level: 7-12**

Duplicate Session 57

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

Title: Factoring and Foiling with Algebra Tiles

Algebra Tiles can provide a great hands-on experience for your visual learners. Participants will receive a handout with sample lesson plans and patterns for homemade algebra tiles.

9:30-11:20 am Friday **Session: 16**
Ballroom D **Grade Level: 8-C**

Speaker(s) **Andy Johnson**
Center for Math and Science Education, BHSU
FEATURED SPEAKER

Title: The Role of Misconceptions in Science Teaching

Students come into our classes with alternate ways of thinking about the topics we teach. But so what--we teach them the right answers, don't we? The presenters will provide copies of useful tools to evaluate whether students really understand certain topics in chemistry, biology, and physics. A second topic to be addressed is whether or how teaching the right answers can "fix" these misconceptions. Evidence from the research literature illuminates this question.

9:30-10:20 am Friday **Session: 17**
Salons **Grade Level: K-5**

Speaker(s) **Kris Carmody**
Hanson School

Title: Creatures of the Night

This will be a presentation on a unit focusing on nocturnal animals, especially owls & bats. A cross-the-curriculum unit.

Friday

9:30 am

9:30-11:20 am Friday **Session: 18**
Symposium **Grade Level: 9-C**

Speaker(s) **Dr. Curtis Olson, Moderator**
USD

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.

9:30-10:30 am Friday **Session: 19**
Church A **Grade Level: K-12**

Speaker(s) **Michelle Mehlberg**
Department of Education

Title: Digital Curriculum

This will be an overview of what Digital Curriculum is, how SD teachers are using it, and who you can contact to sign up.

9:30-11:20 am Friday **Session: 20**
Church B **Grade Level: K-8**

Duplicate Session 32

Speaker(s) **Dianne Miller**
SD Project Learning Tree

Title: Energy and Society

Incorporate energy education into elementary and middle school curricula. Learn about opportunities to understand energy choices and consequences. Energy kits will be handed out!

9:30-10:20 am Friday **Session: 21**
Church D **Grade Level: 9-12**

Speaker(s) **Harlan J. Heitz**
Ipswich High School

Title: Will That Be Cash or Charge?

This is a modeling physics concept of introducing the concept of "charge" using sticky tape experiments.

Friday 10:30 am

10:30-11:20 am Friday Session: 22
Ballroom C Grade Level: 9-12
Speaker(s) Janet L. Martin
St. Mary Catholic School

Title: **Scientific Plays**
Use student plays to reinforce concepts such as photosynthesis and cellular respiration.

10:30-11:20 am Friday Session: 23
Salons Grade Level: K-4
Speaker(s) Nancy J. Weller, Long Valley
& Mary A. Graupmann, /Kadoka Schools

Title: **Science in Literature**
Curl up with a good story book and let the science begin.

10:30-11:20 am Friday Session: 24
Church A Grade Level: 4-8
Speaker(s) Becky Umenthum
Belle Fourche

Title: **Math Games in the Middle Grades**
Liven up your math classes with a variety of fun games. Handout of games for the whole class as well as for small groups of students.

Friday 10:30 am

10:30-11:20 am Friday Session: 25
Church B Grade Level: 6-8
Speaker(s) Dave Kowal
Holt, Rinehart & Winston

Title: **Holt Science & Technology 2005 Unveiled**
Don't miss this opportunity to see Holt's newest products for middle school science. Door prizes & a drawing.

Friday 10:30 am

10:30-11:20 am Friday Session: 26
Church D Grade Level: K-12
Speaker(s) Samra Trask
Wall School District

Title: **Tomes & Times: Tie into Math with Literature!**
If a good story leads to a positive solution, is it math or is it literature? Using good children's literature to facilitate math concepts is fun, factual, and fluid. They won't realize they get it. . . Until they got it.

Friday 11:45 am

11:45 am-1:10 pm Friday Session: 27
Arena Grade Level: All
Speaker(s) Ken Graupmann & Jean Gomer

LUNCHEON

Door Prizes will be given out. You must be present to win.

Friday

1:30 pm

1:30-4:20 pm
Ballroom B

Session: 28
Grade Level: 6-8

Duplicate Session 50

Speaker(s) **Marshalyn Baker**
Messalonskee Middle School, Maine
FEATURED SPEAKER

Title: Mrs. B's ABC's and 1-2-3's of Space
Come and share the excitement of space with solar system educator, Marshalyn Baker. This 3-hour workshop will feature engaging activities that have high alignment with math standards and integrate well with other content areas.

1:30-4:20 pm Friday
Ballroom C

Session: 29
Grade Level: K-8

Speaker(s) **Janet L. Briggs**
CAMSE/BHSU
FEATURED SPEAKER

Title: Process Skills Circus
Experience the science process skills first-hand by participating in inquiry-based activities such as predicting and questioning. Discuss the inclusion of these tools for learning science in traditional and hands-on science programs.

1:30-2:20 pm Friday
Ballroom D

Session: 30
Grade Level: 4-12

Speaker(s) **Pam Zubke**
Waubay School

Title: Project Atmosphere: Weather Studies with Newspapers
The presenter will demonstrate a method for finding temperature patterns on a weather map and discuss reasons for the patterns. Will provide handouts.

1:30-2:20 pm Friday
Salons

Session: 31
Grade Level: K-5

Speaker(s) **Marcy Farrand & Lee Shepherd**
Wilson Elementary, Rapid City

Title: A Hands (and Feet) on Workshop
Integrating science and math with physical education.

Friday

1:30 pm

1:30-3:20 pm Friday
Symposium

Session: 32
Grade Level: K-8

Duplicate Session 20

Speaker(s) **Dianne Miller**
SD Project Learning Tree

Title: Energy and Society
Incorporate energy education into elementary and middle school curricula. Learn about opportunities to understand energy choices and consequences. Energy kits will be handed out!

1:30-3:20 pm Friday
Church A

Session: 33
Grade Level: 3-12

Speaker(s) **Stephanie Weideman**
SD DOE

Title: Understanding and Utilizing NAEP Results and Tools
Participants will be introduced to the NAEP Math and Science assessments, have the opportunity to review and analyze results, and learn how to use available NAEP tools to enhance classroom instruction.

1:30-2:20 pm Friday
Church B

Session: 34
Grade Level: 7-12

Speaker(s) **Larry Browning**
SDSU

Title: PTRAs-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, the upcoming workshop (Brookings, July 12-16), and leave with a tabletop hovercraft at this session.

Friday

1:30 pm

1:30-2:20 pm Friday
Church C

Session: 35
Grade Level: 9-12

Duplicate Session 50

Speaker(s) Jerry Loomer
Rapid City Central

Title: Global Warming

We hear a lot about "global warming," but does it really exist? Is the "global" scare something media people have jumped on or is there scientific evidence supporting a "global warming" cause? If it does exist, is it man-caused or natural? What does the data say?

1:30-4:20 pm Friday
Church D

Session: 36
Grade Level: K-6

Speaker(s) Micheline A. Hickenbotham
BHSU

Title: Learning Science through Inquiry or Discovery

This hands-on workshop simulates the elementary classroom environment. Participants will use the scientific method in an inquiry based, then a discovery based science problem.

1:30-2:20 pm Friday
Board room

Session: 37
Grade Level: 9-12

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

Title: Computers?

Friday

2:30 pm

2:30-4:20 pm Friday
Ballroom D

Session: 38
Grade Level: 4-8

Speaker(s) Betty Erickson
Kearsarge Regional School District, NH
FEATURED SPEAKER

Title: Fractals at the Elementary Level

What do Sierpinski and chaos have in common? Come find out!

2:30-3:20 pm Friday
Salons

Session: 39
Grade Level: 5-C

Speaker(s) Ken Graupmann
Kadoka Schools

Title: Hands on Plastic

Do a plastics analysis lab with materials supplied to the Middle Level Science Teachers Association from the American Plastics Council. Receive information on how to get a kit for classroom use.

2:30-4:20 pm Friday
Church B

Session: 40
Grade Level: 6-8

Speaker(s) Dave Kowal
Holt, Rinehart & Winston

Title: Motivate the Unmotivated with Scientific Discrepant Events

Join us to learn how discrepant events can enliven your classroom and enhance student performance. Door prizes and drawings. Handouts will be provided.

2:30-3:20 pm Friday
Church C

Session: 41
Grade Level: 7-12

Speaker(s) Jean Gomer
Deubrook Area Schools

Title: Teaching Reading in the Math Classroom

Teaching students in grades 7-12 the value of being able to read their math books has become increasingly important. This session will share ideas on how to promote good reading habits in the math classroom.

Friday

3:30 pm

3:30-4:20 pm Friday

Ballroom C

Speaker(s)

Kristin Schultz

The Jane Goodall Institute

Session: 42

Grade Level: 9-12

Title: Roots & Shoots-Lessons for Hope

Learn about Roots & Shoots, a community-based service learning program, and our newest high school materials-Lessons for Hope. Using Dr. Jane Goodall's life as an example, these web-based materials will inspire students to lead and take action in their communities. Handouts and research will be provided.

3:30-4:20 pm Friday

Symposium

Session: 43

Grade Level: All

Title: AAPT Business Meeting

3:30-4:20 pm Friday

Church A

Speaker(s)

Laurie A. Smock

Holt, Rinehart & Winston

Session: 44

Grade Level: 6-9

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

Learn to incorporate the NCTM Process Standards into your classroom. Walk away with 30 activities you can use in your classroom.

3:30-4:20 pm Friday

Church C

Speaker(s)

Ramona Lundberg

Deuel School

Session: 44.5

Grade Level: 9-12

Title: My Favorite Resources

As a veteran high school biology, chemistry and advanced biology teacher, I have collected a variety of resources and will share information on the ones I like the best.

Friday

4:30 pm

4:30-5:30 pm Friday

Salons

Speaker(s)

Ken Graupmann, President

SDSTA

Session: 45

Grade Level: All

Title: SDSTA Business Meeting

4:30-5:30 pm

Symposium

Speaker(s)

Jean Gomer, President

SDCTM

Session: 46

Grade Level: All

Title: SDCTM Business Meeting

Friday

5:00 pm

5:00-6:30 pm Friday

Lobby area

Title: Holt, Rinehart & Winston Reception

Session: 47

Grade Level: All

Friday

7:00 pm

7:00-9:00 pm Friday

Ballrooms

Session: 48

Grade Level: All

BANQUET

Speaker Ron Dyvig

He will discuss the background, history, construction, and operation of Badlands Observatory. He will include information about the Asteroid Research & Public Outreach Programs.

Saturday

7:00 am

7:00-8:00 am Saturday **Session: 49**
Salons **Grade Level: All**
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.

Saturday

8:30 am

8:30-11:20 am Saturday **Session: 50**
Ballroom B **Grade Level: 6-8**
Duplicate Session 28
Speaker(s) **Marshalyn Baker**
Messalonskee Middle School, Maine
FEATURED SPEAKER

Title: Mrs. B's ABC's and 1-2-3's of Space

Come and share the excitement of space with solar system educator, Marshalyn Baker. This 3-hour workshop will feature engaging activities that have high alignment with math standards and integrate well with other content areas.

8:30-9:20 am Saturday **Session: 51**
Ballroom C **Grade Level: 6-8 & C**
Speaker(s) **Rena Faye Norby**
BHSU

Title: Connected Mathematics--Effective Methods of Teaching Middle School Math

Connected Mathematics is an NSF sponsored Middle School mathematics curriculum that helps students develop understanding of important concepts, skills, procedures, and ways of thinking and reasoning in number, geometry, measurement, algebra, probability and statistics. This session will provide an opportunity for the summer CMP workshop participants at BHSU to have input to planning the Summer 2004 workshop, to recruit new CMP participants and to participate in a CMP activity, share some ideas. Snacks provided.

Saturday

8:30 am

8:30-10:20 am Saturday **Session: 52**
Ballroom D **Grade Level: K-5**
Speaker(s) **Betty Erickson**
Kearsarge Regional School District, NH
FEATURED SPEAKER

Title: Family Math Nights

See how a local McDonald's and Pizza Chef support Family Math.

8:30-9:20 am Saturday **Session: 53**
Salons **Grade Level: K-12**
Speaker(s) **Diana McCann & Ramona Lundberg**
SD Presidential Award Coordinators

Title: The "ins" and outs of the Presidential Award Application

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

8:30-9:20 am Saturday **Session: 54**
Symposium **Grade Level: 7-C**
Duplicate Session 12
Speaker(s) **Marie L. Steckelberg, Asst. Professor**
USD/JAMES Project

Title: JAMES Project

Joining Across Miles Environmental System--An exciting collaborative project that allows students to apply the scientific method, collect and share real data across the state.

8:30-9:20 am Saturday **Session: 55**
Church A **Grade Level: 6-12**
Speaker(s) **Kevin J. Reins, Ph.D.**
USD

Title: Contrasting Cases-A Truly Novel Instructional Strategy

How to use appropriately arranged contrasting cases and scaffolded inquiry to help students recognize meaningful math patterns and concepts with which students typically struggle.

Saturday

8:30 am

8:30-9:20 am Saturday Session: 56
Church B Grade Level: 9-12

Duplicate Session 7

Speaker(s) **Mark M. Farrand**
Rapid City Central

Title: **Let's Get Tropical!**

I will share my experiences from five summers of leading high school students to Costa Rica on the ultimate ecotourism adventure!

8:30-9:20 am Saturday Session: 57
Church C Grade Level: 7-12

Duplicate Session 15

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

Title: **Factoring and Foiling with Algebra Tiles**

Algebra Tiles can provide a great hands-on experience for your visual learners. Participants will receive a handout with sample lesson plans and patterns for homemade algebra tiles.

8:30-9:20 am Saturday Session: 58
Church D Grade Level: 7-C

Speaker(s) **Steve Moeckly & James Stearns**
Bristol School District

Title: **Science with Pizazz!**

Steve & James will share a few of their favorite physical science & chemistry labs and demos. Hand-outs will include materials and procedures.

9:30-11:20 am Saturday Session: 59
Ballroom C Grade Level: 5-12

Speaker(s) **Jerry Opbroek**
SD Mobile Science Lab

Title: **SD Mobile Science Lab**

An informational meeting for teachers who have had the MSL at their school and for teachers who are interested in having it.

Saturday

9:30 am

9:30-10:20 am Saturday Session: 60
Salons Grade Level: 6-12

Speaker(s) **Carolyn L. Burns**
Watertown High School

Title: **Kaboom!**

What does a chemistry teacher do at an Earth Science Workshop? Come and see the activities developed for copper mining applications.

9:30-11:20 am Saturday Session: 61
Symposium Grade Level: K-12

Speaker(s) **Shannon Amiotte, SD DOE**
Roxie Ahlbrecht, Sioux Falls
& **Rebecca Umenthum, Belle Fourche**

Title: **NBPTS and the Mathematics Teacher**

The National Board for Professional Teaching Standards articulates a vision of mathematics teaching and describes what accomplished teachers of mathematics should know and be able to do. This session will help you learn more about NBPTS and how the "standards" can help you improve student achievement.

9:30-11:20 am Saturday Session: 62
Church A Grade Level: K-12

Speaker(s) **Marilyn Rindfuss**
Harcourt Assessment, Inc.

Title: **Mathematics Assessments: Eliciting Students Best Work**

This presentation will suggest instructional strategies designed to improve students' performance on STEPS and all other assessments they encounter in mathematics.

Saturday

10:30 am

9:30-11:20 am Saturday Session: 63
Church B Grade Level: 6-8
Speaker(s) Dr. Christine Larson
SDSU

Title: Using the Connected Math Project to Teach Algebra

This workshop will concentrate on the units in the CMP curriculum that emphasizes algebra. Teachers will learn to approach algebraic ideas through investigations.

9:30-10:20 am Saturday Session: 64
Church C Grade Level: 9-11
Speaker(s) Jerry A. Ogden
Deubrook Area Schools

Title: Patty Paper Activities

Using patty paper to illustrate theorems, postulates, or various other concepts.

9:30-10:20 am Saturday Session: 65
Church D Grade Level: 7-C
Speaker(s) Steve Moeckly & James Stearns
Bristol School District

Title: You're Doing What with a TI-83?

Are you tired of seeing those wonderful calculators being used for just adding a column of numbers or for multiplying by two? Add a CBL & see your calculators & students come alive.

10:30-11:20 am Saturday Session: 66
Salons Grade Level: K-6
Duplicate Session 5
Speaker(s) Micheline Hickenbotham
BHSU

Title: Making Sense of Multiplication

Tired of having students not knowing their multiplication facts? Do you see confusion when they solve multi-digit multiplication? Explore the various representations to make sense of multiplication.

Saturday

10:30 am

10:30-11:20 am Saturday Session: 67
Church C Grade Level: 4-12
Speaker(s) Pam Zubke
Waubay School District

Title: Project Atmosphere: Air-Sea Interaction and El Nino/La Nina

Investigate coastal upwelling and down welling. Predict general sea surface temperature patterns and influences on weather and climate. Will provide handouts.

10:30-11:20 am Saturday Session: 68
Church D Grade Level: 9-12
Speaker(s) Bill Gripenrog & Susan Fairchild
Watertown High School

Title: How We Learned to Stop Worrying and Learned to Love the Laptops

An overview of how we use laptop computers everyday in our math classroom. A presentation of software called "Discourse" and online textbook.

Saturday

12:00 Noon

12:00-1:00 pm Saturday Session: 69
Ballrooms Grade Level: All
Speaker(s) Jean Gomer & Ken Graupmann

LUNCHEON

Door Prizes will be given out. You must be present to win.

Saturday

1:30 pm

1:30-3:20 pm Saturday **Session: 70**
Ballroom B **Grade Level: All**

Speaker(s) **Ron Dyvig**
Badlands Observatory
FEATURED SPEAKER

Title: Astronomy

This session is a follow-up to Friday night's banquet presentation.

1:30-3:20 pm Saturday **Session: 71**
Ballroom C **Grade Level: K-4**

Speaker(s) **Andy Johnson**
CAMSE/BHSU
FEATURED SPEAKER

Title: Inquiry in K-3 Math--an example

What can you do to help students in early grades understand math and develop useful mathematical reasoning habits? Participants will engage in an example activity involving problem solving and addition and subtraction. We will also study how students in a classroom make sense with this problem.

1:30-3:20 pm Saturday **Session: 72**
Ballroom D **Grade Level: 9-12**

Speaker(s) **Marilyn Rindfuss & Cindy Kroon**
Harcourt Assessment, Inc.

Title: The Speeding Ticket Investigation

This presentation will show how to introduce linear function topics in Algebra I in an engaging context that can virtually ensure student understanding. An extensive handout will be provided. Bring your graphing calculator.

1:30-2:20 pm Saturday **Session: 73**
Salons **Grade Level: 9-C**

Speaker(s) **Judy Vondruska**
SDSU

Title: What Are My Students Thinking?

This session will present a model to improve student interaction during class lectures and provide insights into their understanding.

Saturday

1:30 pm

1:30-3:20 pm Saturday **Session: 74**
Symposium **Grade Level: K-12**

Speaker(s) **Shannon Amiotte**
SD DOE

Title: SD Mathematics Standards

The revised SD Math Standards identify challenging math standards that provide a listing of essential, core content that is rigorous and representative of a commitment to excellence. This session will introduce you to the format of the revised standards and provide insight on how to utilize them in your classroom.

1:30-3:20 pm Saturday **Session: 75**
Church A **Grade Level: 1-8**

Speaker(s) **Kevin J. Reins, Ph.D.**
USD

Title: Math Beneath Its Surface

Diving in, exploring the depths, and coming up for air. Mathematics requires more than a procedural understanding. Students need to develop an appreciation and understanding of the inner workings and structure of mathematics. Activities will uncover mathematical concepts with which students typically struggle.

1:30-2:20 pm Saturday **Session: 76**
Church B **Grade Level: 9-12**

Speaker(s) **Jerry Loomer**
Rapid City Central

Title: Global Warming--Does It Really Exist?

We hear a lot about "global warming," but does it really exist? Is the "global" scare something media people have jumped on or is there scientific evidence supporting a "global warming" cause? If it does exist, is it man-caused or natural? What does the data say?

Saturday

1:30 pm

1:30-2:20 pm

Church D

Speaker(s)

Felicia L. Busch

Felicia Busch & Associates, Inc.

Session: 77

Grade Level: 5-12

Title: Harvest on the Horizon

This session will provide a look at the science behind food biotechnology, examine the benefits and current applications, explore arrange of viewpoints on this issue, and suggest interactive learning opportunities to enhance students' understanding. Hands-on activities will be included along with classroom resource material and DNA samples.

Saturday

3:45 pm

3:45-5:30 pm Saturday

Session: 80

Board room

Speaker(s)

Ken Graupmann & Jean Gomer

Title: Joint Conference Board Meeting

Saturday

2:30 pm

2:30-3:20 pm Saturday

Salons

Speaker(s)

Ken Graupmann

Kadoka Schools

Session: 78

Grade Level: 5-12

Title: El Nino

Leave the working of the tropical Pacific Marine Environment that causes El Nino and La Nina using materials from the Maury Project.

2:30-3:20 pm Saturday

Church B

Speaker(s)

Jerry Loomer

Rapid City Central

Session: 79

Grade Level: 9-12

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.