22nd Annual Joint Conference

South Dakota Science Teachers Association
South Dakota Council of Teachers of Mathematics

February 6, 7, & 8, 2014
Crossroads Hotel-Huron Event Center
Huron, SD

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Graduate Credit is available through DWU-Mitchell.

Next year's conference will be **February 5, 6, & 7, 2015.**

Featured Speakers

BANQUET SPEAKERS — Rose DuBois and Randy Hagen

Success Perfect **is a book that was co-authored by Rose & Randy. They both have taught at Central High School in Rapid City. The book contains sixteen ingredients for achieving success. Rose has produced six educational videos on the power of words, developing confidence, performance, etc. DuBois has taught high school biology and PE for over three decades. DuBois was selected as "SD High School PE Teacher of the Year" in 2010, and received the "Distinguished Service Award" by the SDHSAA in 2009.**

Randy has been an educator and coach for over 25 years. During this time he has been part of eight state championship teams in football, track and gymnastics. He has coached over 50 individual state champions. Randy has twice received the S D H S Teacher of the year award in Physical Education.

Randy's insightful presentations on the "Seven Attitudes of a Champion" and "Every Day Greatness," will confirm that success is never a result of chance, but a result of the choices one makes every day. Take part in this presentation and you too will have the confidence that you can live life "Like a Champion Every Day!"

OTHER FEATURED SPEAKERS

Mike Marlow - does not have to be told about the importance of experiential learning. Marlow, associate professor in science education in the School of Education and Human Development at CU Denver since 1994, has been a pioneer in the 'field,' having taken students on learning excursions all across the United States for 40 years now. He started taking geology students to Hawaii while teaching in Michigan and soon after began taking teachers. "I've been doing that since the mid-70s," he explains. "I began by leading geology trips all over the U.S. This evolved into field studies for teachers to places like the Hawaii volcanoes."

Fawn Nguyen - teaches math at Mesa Union Junior High in southern California. After starting out as a science teacher for 14 years, she has been teaching math for the last 10 years. She is a co-founder of the *Thousand Oaks Math Teachers' Circle*. In an effort to share and learn from other math teachers, Fawn blogs at *Finding Ways to Nguyen Students Over* and authors 3 other websites, including *Visual Patterns*, *MathTalks*, and *180 Days of Math at Mesa*.

Sandy Atkins - is the owner and Executive Director of Creating AHAs. An inspiring speaker, Dr. Atkins is committed to finding those "aha moments" when mathematical connections are made by teachers and students. Her sessions are thought provoking and practical. An educator for over 25 years, Sandy currently works with school districts across the United States in developing conceptual understandings, or Creating AHAs, for teachers and students in grades K-8.

Sheli Smith - leads an innovative team of national STEM Coordinators who design, facilitate, and implement unique and engaging trans-disciplinary problem-based programs in South Dakota and across the country. Sheli is committed to a holistic approach to learning that has garnered her a reputation on the leading edge of educational reform. Smith and her team help teachers transform from traditional to more engaging methods to meet the student needs of today. Meet this PAST Provocateur as she presents sessions at the SD Math & Science Conference.

Jen Dickenson & Marie Steckelberg - have both worked with Dakota Players. Jen was originally from Vermillion and graduated from the University of Minnesota in 2006. She worked with several educational theatres such as AmeriCorps, Power of Hope, and Washington State Endowment for Arts. In 2012 Jen graduated from the University of Hawaii. Marie is the owner of Steckelberg Consulting, LLC and has taught science education at USD, coordinated the Joining Across Miles Environmental Systems (JAMES) Project, was state director for Science Olympiad, and is now coordinating the SD NASA Summer of Innovation Project.

2014 Joint Professional Development Conference

South Dakota Science Teachers Association
South Dakota Council of Teachers of Mathematics

The meeting rooms for all sessions are in
The Crossroads Hotel/Huron Events Center

Program

Thursday, February 6, 2014

7:00 PM - 9:00 PM	Evening Sessions	(See Program)

Friday, February 7, 2014

7:00 AM - 4:20 PM	Registration Open	Pre-Function Area
8:00 AM - 5:00 PM	Exhibits Open	Pre-Function Area
8:30 AM - 11:20 AM	Morning Sessions	(See Program)
11:45 AM - 1:10 PM	Friday Luncheon (cost included in the registration fee)	Prairie A, B, C
1:30 PM - 4:20 PM	Afternoon Sessions	(See Program)
4:30 PM	SDCTM Business Meeting SDSTA Business Meeting	Dakota C Dakota G
5:30-6:45 PM	Social Hour CASH BAR-Hors d'oeuvres sponsored by Think Through Math & Dr. Arnio's Learning Solutions	Pre-Function Area
7:00 PM	Friday Evening Banquet (Cost is $25)	Prairie A, B, C

Saturday, February 8, 2014

7:00 AM - 11:20 AM	Registration Open	Pre-Function Area
7:00 AM - 8:00 AM	Breakfast Meeting Presidential Awardees (Past & Present)	Salon
8:30 AM - 11:20 AM	Morning Sessions	(See Program)
12:00 Noon - 1:00 PM	Saturday Luncheon (cost included in the registration fee)	Prairie A, B, C
1:00 PM - 3:50 PM	Afternoon Sessions	(See Program)
4:00 PM	Joint SDCTM & SDSTA Executive Board Meeting	Boardroom

SDSTA/SDCTM Joint Conference 2014 Planner

Thursday, Feb. 6, 2014		
	First Choice	Second Choice
7:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:

Friday, Feb. 7, 2014		
Remember to visit the exhibits in the Lobby and Hallways of the Crossroads Hotel.		
	First Choice	Second Choice
8:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
9:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
10:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
Noon	**Friday Noon Luncheon in Crossroads Hotel – Prairie A, B, C**	
1:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
2:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
3:30 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
4:30 PM	SDCTM BUSINESS MEETING in Dakota C SDSTA BUSINESS MEETING in Dakota G	5:30 – 6:45 SOCIAL Hour
7 PM	Friday Night Banquet in Prairie Ballrooms A, B, C (Banquet Tickets Required-Cost is $25)	

Saturday, Feb. 8, 2014		
	First Choice	Second Choice
8:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
9:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
10:30 AM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
Noon	**Saturday Noon Luncheon in Crossroads Hotel – Prairie A, B, C**	
1:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
2:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
3:00 PM	Session #:	Session #:
	Location:	Location:
	Title:	Title:
4:00 PM	SDCTM & SDSTA JOINT BOARD MEETING IN THE BOARDROOM	

Next Year's Conference will be February 5, 6, & 7, 2015

Program for 2014 Joint Conference

Special thanks for helping make our conference a success:
TIE for the projectors; and to THINK THROUGH MATH and Learning Solutions for the Social Hour.

Thursday 7 pm

7:00-9:00 pm **Session: 1**
Dakota C **Feb. 6, 2014**

Grade Level: All

Presenter: Ellie Cooch
SDCTM President
ecooch@spearfish.k12.sd.us
http://www.sdctm.org

Math Sharing Session
Sharing lessons and activities will be the focus of this session. Bring 25 copies of your favorite activity or lesson. Or just come!

7:00-9:00 pm **Session: 2**
Dakota G **Feb. 6, 2014**

Grade Level: All

Presenter: Julie Olson
SDSTA President-Elect
Julie@SDSTA.org
http://www.sdsta.org

Science Sharing Session
Bring an idea to share with the group. If it is a lab idea, bring 30 copies to pass out to the participants.

Friday 8:30 am

8:30-10:20 am **Session: 3**
Prairie A **Feb. 7, 2014**

Grade Level: K-5

FEATURED SPEAKER
Sandy Atkins
Creating AHAs
SAtkins@creatingahas.com
http://www.creatingahas.com

Identifying and Preventing Mathematical Disconnects
Join us as we examine common mathematical misconceptions, pinpoint disconnects, and determine the possible cause so that we can fine tune our instructional practices. Examples for closing conceptual gaps will be shared for immediate classroom use.

Are you taking the Conference for credit?

Did you know that you can count one hour of visiting with the vendors?

Questions?
Ask at the registration table!

Friday 8:30 am

8:30-9:20 am **Session: 4**
Prairie B **Feb. 7, 2014**

Grade Level: K-5

FEATURED SPEAKER
Marie Steckelberg, EdD
& Vanessa Hight
SD Discovery Center
MSteckelberg@dishmail.net
http://www.sd-discovery.com

Describing Science
Children naturally like to talk and share what they know. Using descriptive words in questioning, observing, and conclusions, whether spoken or written, makes science more interesting and engaging for students AND more accurate. How descriptive are you? Come and find out!!

8:30-9:20 am **Session: 5**
Dakota D **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Sharon Rendon
& Bjorg Remmers-Seymour
RCAS/CPM
rendon@cpm.org

Struggling Learners Find Success in First Year Algebra
Come hear about our journey with at risk students as they are changing their mindset while experiencing success in a math classroom for the first time in years. Bjorg will share the strategies she uses to engage these students in rigor and the CCSS standards for mathematical practice.

Friday 8:30 am

8:30-9:20 am **Session: 6**
Dakota E **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Mary Lou McGirr, Learning Specialist
Technology & Innovation in Education
mmcgirr@tie.net
http://www.tie.net

Blended Learning for Meeting Learner Needs
School leaders, especially in small schools, are challenged to meet diverse learning needs with limited resources. To maintain a viable curriculum and respond to learner needs and expectations, school leaders can take a blended learning approach. This approach offers a cost effective option for customizing learning for student needs.

8:30-9:20 am **Session: 7**
Dakota F **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Emily Koehler
DeSmet HS
Emily.Koehler@k12.sd.us

Twitter: A Terrific Tool for Teachers
Twitter isn't just for the Kim Kardashians of the world! Teachers all over the world have been using Twitter to build Professional Learning Networks, share resources, and chat about all things education. Come join me to see how you can use Twitter for your professional development!

Next Year's Conference is
February 5, 6, & 7, 2015!

Friday 8:30 am

8:30-9:20 am **Session: 8**
Dakota H **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Madhav Nepal
& Larry Browning
SDSU
Larry.Browning@sdstate.edu
http://seti-2-2013.wikispaces.com/

Quadrat to Query Plants and Prairies
Square foot quadrat will be constructed by participants to survey plants as an outdoor activity. Ways to use this in classroom will be discussed. This was presented at SETI^2 – a Title II sponsored workshop during August 2013.

Friday 9:30 am

9:30-10:20 am **Session: 9**
Prairie B **Feb. 7, 2014**
Duplicate of 72

Grade Level: 9-12

FEATURED SPEAKER
Michael Marlow
University of Colorado Denver (Retired)
Mike.Marlow@ucdenver.edu

Doing Authentic Science: Teaching for Understanding
The purpose of this session is to demonstrate how authentic science inquiries utilizing a constructive inquiry method may be incorporated into a high school science curriculum. Participants will participate in a series of connected hands-on activities designed to follow the constructivistic inquiry method resulting in a deep understanding.

Friday 9:30 am

9:30-10:20 am **Session: 10**
Prairie C **Feb. 7, 2014**
Duplicate of 102

Grade Level: 6-8

FEATURED SPEAKER
Fawn Nguyen
Mesa Union Junior High
FawnpNguyen@gmail.com
http://fawnnguyen.com

Hands-on Activity to Foster CCSS-M Practices
Participants will engage in classroom-tested hands-on activity to foster the Standards for Mathematical Practices. You will build "hotels" with linking cubes with the goal of maximizing profit. You will figure in building costs and consider potential income. This task is easily adaptable to many levels.

9:30-10:20 am **Session: 11**
Dakota A **Feb. 7, 2014**

Grade Level: 3-9

Presenter: Dr. Robert Arnio
Learning Solutions
bhlearningsolutions@rushmore.com

Using Think Through Math for Underachievers
Think through math is one of the fastest growing web-based math intervention programs in the country. Focusing on 3rd grade through Algebra 1, this program provides several layers of help for the student, including connecting the student with a certified math teacher for live assistance. Session 64.5 at 3:30 will feature teachers from Native schools that will discuss the implementation of TTM with their students.

Friday 9:30 am

9:30-10:20 am **Session: 12**
Dakota B **Feb. 7, 2014**

Grade Level: 6-12

Presenter: Peter Vitiello
Sanford Research
Peter.Vitiello@sanfordhealth.org
http://www.sanfordresearch.org

Science Educator Research Fellowship
Are you interested in doing health research over the summer? Learn about the Science Educator Research Fellowship (SERF) at Sanford Research which provides middle and high school science teachers with biomedical research training through independent research in a Sanford lab and learning how to translate these approaches into the classroom.

9:30-10:20 am **Session: 13**
Dakota C **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Steven Rokusek
SD Public Broadcasting
Steven.Rokusek@state.sd.us
http://sdpb.sd.gov/oldschoolscience/dissection.aspx

Dissection Series Update
During this session participants will review science dissections. We will introduce new resources developed after the "Dissection 101" session offered during the 2013 conference. Updates include suggestions we received from participants during the 2013 session.

Have you checked out
"Share the Classroom Treasures"?

Stop in Salon II
and see what is there.

Friday 9:30 am

9:30-10:20 am **Session: 14**
Dakota D **Feb. 7, 2014**

Grade Level: K-5

FEATURED SPEAKER
Marie Steckelberg, EdD
& Vanessa Hight
SD Discovery Center
danhight@gwtc.net

Learning Logs in Science, Become Scientifically Literate
The Next Generation Science Standards state that students need to ask questions, define problems, investigate and analyze data. Using fun hands-on NASA activities and your LEARNING LOGS we will practice the art of questioning, communicating and reflecting to meet the goals of the NGSS. Join us for fun and learning at the elementary school level.

9:30-10:20 am **Session: 15**
Dakota E **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Terry Aslesen
Mitchell Senior HS
Terry.Aslesen@k12.sd.us

Drugs: Legal and Illegal
Topics covered will include: Generics, major types of Prescription Drugs, Scheduling of Drugs: Alcohol, Marijuana, Performance enhancing drugs; Amphetamines, Barbituates, Hallucinogens, Inhalants and Club Drugs. You can never know too much about these topics and neither can your students.

Friday 9:30 am

9:30-10:20 am **Session: 16**
Dakota F **Feb. 7, 2014**

Grade Level: All

Presenter: Jill Weimer, PhD
& Mari Biehl
Sanford Research & SD Innovation Lab
& the PAST Foundation
Jill.Weimer@sanfordhealth.org
http://www.sdinnovationlab.org

STEM Education in Rural Classrooms
The aspiration of educators is to deliver rigorous and relevant knowledge through engaging methods or pedagogy. SDIL teachers are transforming their classrooms into STEM learning centers using the instructional strategy of TPBL. Journey with us as we explain how we integrate technology and innovation to create a working model for rural SD.

9:30-10:20 am **Session: 17**
Dakota G **Feb. 7, 2014**
Duplicate of 95

Grade Level: All

Presenter: Sharon Vestal, Dan Van Peursem,
Larry Browning, & Matt Miller
SDSU & USD
Sharon.Vestal@sdstate.edu

Meet the Future Teachers
Prospective science and math teachers from all South Dakota institutions will be invited to engage in conversation with veteran science and math teachers. The goal is to provide support and encouragement for the next generation of teachers by providing advice, encouraging stories, and successful strategies.

Friday 9:30 am

9:30-10:20 am **Session: 18**
Dakota H **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Madhav Nepal
& Larry Browning
SDSU
Larry.Browning@sdstate.edu
http://seti-2-2013.wikispaces.com/

Plant Press Make and Take
Materials for 30 plant presses will be provided and time devoted to construct your own plant press. This design is the result of SETI^2 workshop-- Title II Sponsored event during the summer of 2013.

9:30-10:20 am **Session: 19**
Salon I **Feb. 7, 2014**

Grade Level: 9-12

Presenter: LuAnn Lindskov
Timber Lake HS
Luann.Lindskov@k12.sd.us

Then and Now: How Teaching Math Has Changed
This session will showcase mathematics lessons developed by the National Math and Science Initiative that are aligned to the Common Core Standards. Participants will engage in discussion comparing how these activities differ from many traditional math lessons and how the role of the teacher is changing as well.

DO YOU HAVE A BANQUET TICKET?

See Steve Caron to purchase a ticket.
Purchase by noon today!

Friday 9:30 am

9:30-10:20 am **Session: 20**
Symposium **Feb. 7, 2014**

Grade Level: 9-12

Presenter: John McEnelly
& Dr. Peggy Norris
Chamberlain HS & BHSU/SURF
John.McEnelly@k12.sd.us

Particle Physics: Its Time Has Come
Peggy Norris, educational outreach specialist of Sanford Labs, Lead, SD and I were selected by the American Physical Society to design a program exposing high school students to career opportunities in particle (modern) physics. We shall describe our experiences, support offered by Sanford Labs, and how we can help you get started.

Friday 10:30 am

10:30-11:20 am **Session: 21**
Dakota A **Feb. 7, 2014**

Grade Level: K-5

Presenter: Heather Overland
Wakpala School/Smee District
Heather.Overland@k12.sd.us

Thinking Outside of the Book
This session will focus on valuing the knowledge that children bring and the way that they think about math. It will also focus on different problem solving strategies and getting children to talk about and explain their thinking with higher order thinking questions.

Friday 10:30 am

10:30-11:20 am **Session: 22**
Dakota B **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Peter Vitiello
Sanford Research
Peter.Vitiello@sanfordhealth.org
http://www.sanfordresearch.org

Basic Research in a Biomedical World
The spectrum of biomedical research goes far beyond clinical settings yet it is difficult to capture the important nature of basic research until it has more obvious "real-world" applications. Peter Vitiello will discuss the continuum of biomedical sciences with an emphasis on basic research and how these discoveries impact the everyday world.

10:30-11:20 am **Session: 23**
Dakota C **Feb. 7, 2014**

Grade Level: 6-8

Presenter: Misty Roberts
& Marcia Torgrude
SD DOE & TIE
Misty.Roberts@state.sd.us

Using Instructional Blueprints to Meet CCSS in Math
Take a trip through the SD blueprints to learn how they can best be used. Determine if your math curriculum materials are in alignment with the CCSS or if you can adapt your current materials to meet the blueprints. Learn how to take ownership of the blueprints and use them to your advantage while discovering more resources for your classroom.

Friday 10:30 am

10:30-11:20 am **Session: 24**
Dakota D **Feb. 7, 2014**

Grade Level: K-5

Presenter: Tracy Mittleider, MSEd
RightStart Mathematics
Tracy@RightStartMath.com

Elementary Math Using the Abacus
Learn about an approach using the visual part of the brain and language to help children understand numbers and place value. Counting on fingers, flash cards, and tears need not be part of the equation. The abacus, math games, and other tools help visual, tactile, and auditory learners.

10:30-11:20 am **Session: 25**
Dakota E **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Dr. Joan Hegerfeld-Baker
SDSU
Joan.Hegerfeld-Baker@sdstate.edu

Influence of STEM Education in Selecting Food and Ag Science
Market forces identify a faster than average growth rate expected for agriculture and food scientists. SDSU research investigated the influential factors comparing STEM to non-STEM majors (n = 458) in choosing careers as well as the technology teachers (n = 239) in SD are using to teach math and science concepts.

Friday 10:30 am

10:30-11:20 am **Session: 26**
Dakota F **Feb. 7, 2014**

Grade Level: K-12

Presenter: Mark Iverson, Carl Fellbaum & Benjamin Benson
Castlewood Elementary & SDSU
Mark.A.Iverson@k12.sd.us

Two Scientists and a Fungi
Mycorrhizal interactions can be used to conduct labs dealing with symbiotic relationships as well as plant growth and reproduction. Information given will be adaptable to any skill level. Participants will engage in a hands-on lab, receive resources for classroom use, and receive Excel documents to strengthen results through statistical analysis

10:30-11:20 am **Session: 27**
Dakota G **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Lindsey Brewer, NBCT & Lori Keleher, NBCT
Huron HS
Lindsey.Brewer@k12.sd.us

iPad Apps with Activities
You will leave this session familiar with 4 iPad apps for the math classroom. For each app there will be a handout to guide and assess student learning.

SOCIAL HOUR
FRIDAY 5:30-6:45
CASH BAR

Hors d'oeuvres
sponsored by
THINK THROUGH MATH
and Dr. Arnio's Learning Solutions

Friday 10:30 am

10:30-11:20 am **Session: 28**
Dakota H **Feb. 7, 2014**

Grade Level: 6-8

Presenter: Anne Lewis
SD Discovery Center
AnneLewis@sd-discovery.com
http://www.sd-discovery.com

Into the Dead Zone
Take your middle/high school students into the dead zone using the tools and resources of EarthEcho International. Explore the NGSS correlated lesson plans. Get info about a new service learning program that includes a mini-grant. This is a sneak peak to next summer's field-based professional development!

10:30-11:20 am **Session: 29**
Salon I **Feb. 7, 2014**

Grade Level: K-5

FEATURED SPEAKER
Marie Steckelberg, EdD
& Vanessa Hight
SD Discovery Center
MSteckelberg@dishmail.net
http://www.sd-discovery.com

Catch the Drag!
The NGSS Framework asks teachers to help students to use both science and engineering practices. Explore the differences and similarities as we "catch the drag" to deliver special cargo.

Friday 10:30 am

10:30-11:20 am **Session: 30**
Symposium **Feb. 7, 2014**
Duplicate of 43

Grade Level: All

Presenter: Carolyn Spomer
SD Retirement System
Travis.Almond@state.sd.us
www.sdrs.sd.gov

Understanding Your SD Retirement System
This presentation is designed to provide a general overview of the retirement programs available to you as a public school employee. Participants will have the opportunity to learn about SDRS, the SDRS Supplemental Retirement Plan (SRP), and the Special Pay Plan (SPP). Whether you are new to public employment or are nearing retirement, you are encouraged to attend this informative presentation to have a sound understanding of your SDRS benefits and the additional savings options offered through the SDRS-SRP.

Friday NOON

Noon-1:00 pm **Session: 31**
Prairie A, B & C **Feb. 7, 2014**

Grade Level: All

Presenter: Ellie Cooch & Brenda Murphey
SDCTM & SDSTA Presidents

Friday 1:30 pm

1:30-2:20 pm **Session: 32**
Prairie A **Feb. 7, 2014**

Grade Level: K-5

FEATURED SPEAKER
Sandy Atkins
Creating AHAs
SAtkins@creatingahas.com
http://www.creatingahas.com

Building a Firm Foundation
Join us for this interactive session as we examine the vital components of an early grades mathematics program. Included will be a discussion of key number sense experiences, mathematically sound sequences for developing conceptual understandings, and potential hazards that may lead to misconceptions

1:30-2:20 pm **Session: 33**
Prairie B **Feb. 7, 2014**

Grade Level: K-8

FEATURED SPEAKER
Sheli Smith
STEM Coordinator
SSmith@pastfoundation.org
http://www.pastfoundation.org

An Artist's Eye for Math and Science
Beauty exists all around us. So does math and science. Explore with me how to mix it all up with problem-based learning that empowers both teachers and students to express science and math with art, music, and dance.

Friday 1:30 pm

1:30-2:20 pm **Session: 34**
Prairie C **Feb. 7, 2014**

Grade Level: All

FEATURED SPEAKER
Jen Dickenson, Marie Steckelberg
& Vanessa Hight
Dakota Players
JDickenson@dakotaplayers.com
http://DakotaPlayers.com

In Your Galaxy Soon! Space School Musical
Move and groove along with the planets, moons, meteors, comets, asteroids and even some rockin' scientists as they (and you) sing, dance and serve up the freshest facts in the galaxy. Learn how you can bring this ultra-cool edu-tainment "hip-hopera" that is out of this world to your community!!

1:30-2:20 pm **Session: 35**
Dakota A **Feb. 7, 2014**

Grade Level: 6-8

Presenter: Steve Lewis
The PAST Foundation
SLewis@pastfoundation.org
http://www.pastfoundation.org

Number Sense in Cool Math
Let's manipulate numbers kinesthetically, revealing how numbers go together then apply these concepts to real life problems that we can solve through engaging projects with products that showcase the various modalities of learning.

Friday 1:30 pm

1:30-2:20 pm **Session: 36**
Dakota B **Feb. 7, 2014**

Grade Level: 9-12

Presenter: LuAnn Lindskov
Timber Lake HS
Luann.Lindskov@k12.sd.us

The Next Generation of Science Education
This session will showcase science lessons developed by the National Math and Science Initiative that are aligned to the Next Generation Science Standards. Participants will discuss how these lessons challenge students in preparation for success in advanced coursework and nurture interest in STEM-related careers.

Visit www.SanfordResearch.org/Education
Email SanfordOutreach@sanfordhealth.org
or Call 605.312.6590 for information on:

- Student and Teacher Research Experiences
- Student and Teacher Workshops
- Biomedical Activity Modules
- Equipment Sharing
- Visits to Sanford Research
- SDIL and PLTW Partnerships
- Various other outreach opportunities

Friday 1:30 pm

1:30-2:20 pm **Session: 37**
Dakota D **Feb. 7, 2014**

Grade Level: All

Presenter: Sharon Vestal & Lisa Weier
SDSU & Mickelson MS-Brookings
sdsu.isee@sdstate.edu
http://www.sdstate.edu/isee/

What Is ISEE and How Can It Help You?
South Dakota State University recently created the Institute for STEM Education Enhancement. This session will discuss our goals and mission, but the focus will be on how ISEE can help K-12 science and math teachers in South Dakota.

1:30-2:20 pm **Session: 38**
Dakota E **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Aaron Kromann
Project Lead The Way
AKromann@pltw.org
http://www.pltw.org

Biomedical Science Curriculum
Learn how the PLTW Biomedical Science program can prepare students for college and careers related to healthcare, medicine, research, and bioengineering. Students explore the concepts of human medicine, and work collaboratively to investigate and design innovative solutions to prevalent health challenges such as fighting cancer with nanotechnology.

Don't forget the business meetings from 4:30-5:30.

Friday 1:30 pm

1:30-2:20 pm **Session: 39**
Dakota F **Feb. 7, 2014**

Grade Level: 9-12

Presenter: William Kliche & Samra Trask
Rapid City Schools/SD DOE/Wall HS
William.Kliche@k12.sd.us

New Course for College Algebra Prep
Recently a course has been developed through a partnership from SD BOR, SD DOE, college professors and high school teachers. This course has one primary goal: Get students ready for college algebra!! This course has been coded and an outline developed. This presentation will explain the background of this course.

1:30-2:20 pm **Session: 40**
Dakota G **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Paul Kuhlman
Avon School
Paul.Kuhlman@k12.sd.us
http://pk014.k12.sd.us

Using common core strategies in the science classroom
How do you "make your students thinking visible?" The use of sustained silent writing (SSW) is an excellent way! This session will involve activities that teachers can use to help incorporate this strategy into their science classroom.

Next Year's Conference is February 5, 6, & 7, 2015!

Have you considered being a presenter?

Friday 1:30 pm

1:30-2:20 pm **Session: 41**
Dakota H **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Chris Larson
SDSU
Christine.Larson@sdstate.edu

Practicing Mathematical Practices
Mathematical Practices from the Common Core are the focus of this session. Algebra and geometry content for middle and high school will be used to demonstrate ways to implement the mathematical practices.

1:30-2:20 pm **Session: 42**
Dakota C **Feb. 7, 2014**

Grade Level: 6-12

Presenter: Judy Vondruska
SDSU
Judy.Vondruska@sdstate.edu

iPad Science Shar-a-thon
A great number of science apps have been developed - some informational while others are more interactive. Unfortunately, the apps are not always easy to find! In this session participants will be provided an overview of apps appropriate for a variety of science classes. Participants will also be encouraged to share their own science app finds!

Everyone here has something that they do well!

Please think about sharing with other South Dakota teachers.

Friday 1:30 pm

1:30-2:20 pm **Session: 43**
Symposium **Feb. 7, 2014**
Duplicate of 30

Grade Level: All

Presenter: Carolyn Spomer
SD Retirement System
Travis.Almond@state.sd.us
www.sdrs.sd.gov

Understanding Your SD Retirement System
This presentation is designed to provide a general overview of the retirement programs available to you as a public school employee. Participants will have the opportunity to learn about SDRS, the SDRS Supplemental Retirement Plan (SRP), and the Special Pay Plan (SPP). Whether you are new to public employment or are nearing retirement, you are encouraged to attend this informative presentation to have a sound understanding of your SDRS benefits and the additional savings options offered through the SDRS-SRP.

SOCIAL HOUR

FRIDAY

5:30-6:45

Hors d'oeuvres
sponsored by
THINK THROUGH MATH
and
Dr. Arnio's Learning Solutions

CASH BAR

Friday 2:30 pm

2:30-3:20 pm **Session: 44**
Prairie A **Feb. 7, 2014**

Grade Level: K-5

FEATURED SPEAKER
Sandy Atkins
Creating AHAs
SAtkins@creatingahas.com
http://www.creatingahas.com

Assessing for Conceptual Depth: The Power of whole class interviews
Before we can design valuable learning experiences we must first determine students' depth of mathematical understanding. Easier said than done. Join us for this interactive session as we examine a model for using whole class interviews to assess for conceptual depth.

2:30-4:20 pm **Session: 45**
Prairie B **Feb. 7, 2014**

Grade Level: 9-12

FEATURED SPEAKER
Michael Marlow
University of Colorado Denver (Retired)
Mike.Marlow@ucdenver.edu

Experiential Learning: Impacts on Science Identity
Experiential learning as professional development is a process through which a teacher constructs knowledge, skill, and a science identity directly from an experience within the environment. This session will show a number of teacher field experiences, how they were planned, goals and objectives, and pre- and post- activities.

Friday 2:30 pm

2:30-4:20 pm **Session: 46**
Prairie C **Feb. 7, 2014**
Duplicate of 73

Grade Level: 6-8

FEATURED SPEAKER
Fawn Nguyen
Mesa Union Junior High
FawnpNguyen@gmail.com
http://fawnnguyen.com

Problem Solving Tasks and Using Visual Patterns
Participants will see strategies for implementing problem solving in the classroom, where to find resources for rich tasks, and how visual pattens can be used to foster deep and flexible algebraic thinking.

2:30-3:20 pm **Session: 47**
Dakota A **Feb. 7, 2014**

Grade Level: 6-12

Presenter: Ashley Digmann
& Rocky Von Eye
DWU
asdigman@DWU.EDU

Integrating the Smart Pen into Your Teaching Tool-belt
An introduction to smart pens which record everything a teacher writes and speaks. Presentation will include a demonstration of the pens and allow participants to make a pencast of their own. The presenters will demonstrate compatible programs such as Evernote, a note-taking tool.

Friday 2:30 pm

2:30-3:20 pm **Session: 48**
Dakota B **Feb. 7, 2014**
Duplicate of 79

Grade Level: K-5

Presenter: Aaron Kromann
Project Lead The Way
AKromann@pltw.org
http://www.pltw.org

Elementary STEM Curriculum
Studies show that students decide as early as second grade whether they like, and think they are good at, math and science. Project Lead The Way's elementary program is designed to spark interests of K-5 students and will align to the Next Generation Science Standards and Common Core State Standards.

2:30-3:20 pm **Session: 49**
Dakota C **Feb. 7, 2014**

Grade Level: 6-8

Presenter: Alan Haarstad
SD DOE
Alan.Haarstad@state.sd.us
http://doe.sd.gov/oats/NAEP.aspx

8th Grade NAEP Math Scores in South Dakota
In the Spring of 2013, many of South Dakota's 8th grade students participated in the National Assessment of Educational Progress (NAEP) for Mathematics. I will be sharing the results of the 2013 assessment in order to understand how our students performed compared to past administrations and to other states.

Don't forget the business meetings from 4:30-5:30.
Science in Dakota G
Math in Dakota C

Friday 2:30 pm

2:30-4:20 pm **Session: 50**
Dakota D **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Dr. Joan Hegerfeld-Baker
SDSU
Joan.Hegerfeld-Baker@sdstate.edu

Food Safety Scientist Curriculum
Experience the SDSU Curriculum: Food Safety Scientist. Includes virtual and hands-on labs and educational tools incorporating basic STEM concepts and laboratory techniques into food and agriculture science. Includes four units: molds and toxins in foods, pH manipulation of foods; microbial dairy inspections; water activity and moisture.

2:30-3:20 pm **Session: 51**
Dakota E **Feb. 7, 2014**
Duplicate of 91

Grade Level: K-5

Presenter: Cindy Kroon
Montrose HS
Cindy.Kroon@k12.sd.us
http://ck022.k12.sd.us

Break-lyn Bridge: Modeling with Spaghetti
Arrivaderci cookbook data collection activities! Put on your student hat as we design an experiment, then collect data on the strength of spaghetti bridges. Participants will use modeling techniques and the scientific method during an inquiry-based activity. Itsa gonna be great!

Friday 2:30 pm

2:30-3:20 pm **Session: 52**
Dakota F **Feb. 7, 2014**

Grade Level: K-12

Presenter: Judy Vondruska
SDSU
Judy.Vondruska@sdstate.edu

What Can I Do to Help My Students Learn?
Our time with students is limited and we want to make the most of it! What evidence does education research provide about increasing student achievement? This session will relate the efforts of John Hattie in figuring out what works and what doesn't. We will focus on the top five most effective and least effective influences on achievement.

2:30-3:20 pm **Session: 53**
Dakota G **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Paul Kuhlman
& Gayle Cushenberry
Avon School
Paul.Kuhlman@k12.sd.us
http://pk014.k12.sd.us

Incorporating Literature in the Science Classroom
Read a good book lately? How about a good fiction or non-fiction science book? This session will focus on using outside literature in the science classroom. Presenters will share examples they use and also ask that participants share ideas or better yet bring books used in their own classroom.

Friday 2:30 pm

2:30-3:20 pm **Session: 54**
Dakota H **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Madhav Nepal
& Larry Browning
SDSU
Larry.Browning@sdstate.edu
http://seti-2-2013.wikispaces.com/

Hands on Genetics in the Biology Classroom
Using free resources to teach hands on genetics in biology classes will be the focus of this session. Please bring your laptop. This activity was presented at SETI^2 workshop sponsored by a Title II grant during August 2013.

2:30-3:20 pm **Session: 55**
Salon I **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Marvin Gamble
USD
Marvin.Gamble@usd.edu

Pythagorean Triples from Infinity and Beyond?
You will be able to find prime Pythagorean triples with the method that will be discussed. I will show what type of numbers can or cannot be Pythagorean triples. A short history of Pythagoras and his school and triples will be discussed.

If you were a part of Cosmic Math in the Summer of 2013
You should attend one of the housekeeping sessions at 8:00 am Saturday

Friday 2:30 pm

2:30-3:20 pm **Session: 56**
Symposium **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Dan Van Peursem
USD/BOR
DPeursem@usd.edu

Transitioning Your Math Students from High School to College
Come and visit with mathematics faculty from the BOR institutions to discuss topics having to do with the transition from high school to college. Come with questions dealing with placement policy, Smarter Balance, or how we teach our college classes and what we expect from our students.

Friday 3:30 pm

3:30-4:20 pm **Session: 57**
Prairie A **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Rose DuBois
Retired
pearcros@yahoo.com

Activate Your Environment
Enjoy a multitude of ingredients to increase a successful working environment. Topics will cover: interpersonal relationsips, self esteem, and increasing the level of intelligence and success.

Friday 3:30 pm

3:30-4:20 pm **Session: 58**
Dakota A **Feb. 7, 2014**

Grade Level: K-5

Presenter: Janet Wagner
Bon Homme Schools
Janet.Wagner@k12.sd.us

Elementary My Dear Newton!
This session will be a make and take with experiments to reinforce the principles of Newton' three laws of motion at the elementary level.

3:30-4:20 pm **Session: 59**
Dakota B **Feb. 7, 2014**

Grade Level: K-5 (and 6-12)

Presenter: Michelle Regan
National Trainer
mmnregan@gmail.com

Why Some Creatures Eat Their Young… Tempted?
If you knew what we knew, you wouldn't be! Have you ever gotten through the day exhausted but unable to pinpoint why? You're the victim of all those small, annoying, time-consuming behaviors. They wear you down! Teaching doesn't have to be like that--there's hope! Learn classroom management tools to save you time and renew your energy.

Next Year's Conference is
February 5, 6, & 7, 2015!

Friday 3:30 pm

3:30-4:20 pm **Session: 60**
Dakota C **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Molly TenBroek
McIntosh HS
Molly.Tenbroek@k12.sd.us

Old and New Teaching Ideas for the Science Classroom
Isn't Science Fun? This session will combine some old and new teaching ideas that I use in my science classes. The old ideas are things that have proven effective. The new ideas were developed to include components of common core and the K-12 framework.

3:30-4:20 pm **Session: 61**
Dakota E **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Liz McMillan
Sanford PROMISE
Elizabeth.McMillan@sanfordhealth.org
http://www.sanfordresearch.org/education

Genomics
3,000,000,000 base pairs of DNA?! How can we utilize next generation sequencing technologies to identify your genetic code and then what can we do with all that data?

Friday 3:30 pm

3:30-4:20 pm **Session: 62**
Dakota F **Feb. 7, 2014**

Grade Level: 6-8

Presenter: Sharon Rendon
RCAS/CPM
rendon@cpm.org

Making Middle School Math Come Alive with Games and Activities

Participants will be actively engaged in games and activities developed for Middle School math topics. Some topics included are operations with integers, probability, graphing, and measures of central tendency. Learn to justify your answers with a Scavenger Hunt. Join me for engaging math lessons.

3:30-4:20 pm **Session: 63**
Dakota G **Feb. 7, 2014**

Grade Level: 9-12

Presenter: James Stearns
SD AAPT
James.Stearns@k12.sd.us
http://SDAAPT.SDSTA.org

AD-AAPT Photo Contest & Annual Meeting
All Physics and/or Physical Science teachers are invited to the annual meeting and the final voting & judging of the photos and essays that have been submitted. Check out the photos in the hall Thursday night and/or Friday and put in your two cents worth. Vote by putting in a penny for your top choice or two. All physics or physical science teachers are invited to this meeting.

Friday 3:30 pm

3:30-4:20 pm **Session: 64**
Dakota H **Feb. 7, 2014**

Grade Level: 9-12

Presenter: Sam Smith
SDSU
Samson.Smith@sdstate.edu
http://facebook.com/biosamsmith

Don't Forget to Astound! Visualization of the Mundane

Spatial visualization of large numbers helps reinforce the unbelievable magnitude of those data points we casually discuss like the age of the earth and the surface area of human intestines. I will demonstrate how I used simple objects to shake complacency and stimulate discussion in a non-majors biology classroom.

3:30-4:20 pm **Session: 64.5**
Salon I **Feb. 7, 2014**

Grade Level: All

Presenter: Richard Dart

Math Intervention for Native American Low Achievers

South Dakota GEAR UP provided a grant for Native schools to use Think Through Math, a web-based math intervention program for 3rd grade through Algebra. This panel of teachers will discuss their experiences with this program and make recommendations to other teachers

Friday 3:30 pm

3:30-4:20 pm **Session: 65**
Symposium **Feb. 7, 2014**

Grade Level: K-5

Presenter: Alan Haarstad
SD DOE
Alan.Haarstad@state.sd.us
http://doe.sd.gov/oats/NAEP.aspx

4th Grade NAEP Math Scores in South Dakota
In the Spring of 2013, many of South Dakota's 4th grade students participated in the National Assessment of Educational Progress (NAEP) for Mathematics. I will be sharing the results of the 2013 assessment in order to understand how our students performed compared to past administrations and to other states.

Friday 4:30 pm

4:30-5:30 pm **Session: 66**
Dakota C **Feb. 7, 2014**

Grade Level: All

Presenter: Ellie Cooch
SDCTM President

SDCTM Business Meeting

4:30-5:30 pm **Session: 67**
Dakota G **Feb. 7, 2014**

Grade Level: All

Presenter: Brenda Murphey
SDSTA President

SDSTA Business Meeting

SOCIAL HOUR

5:30-6:45

Hors d'oeuvres
sponsored by
THINK THROUGH MATH
and
Dr. Arnio's Learning Solutions

CASH BAR

Friday 7:00 pm

7:00 pm--- **Session: 68**
Prairie A, B & C **Feb. 7, 2014**

Grade Level: All

Presenter: Rose DuBois & Randy Hagen

Banquet

Saturday 7:00 am

7:00-8:00 am **Session: 69**
Library **Feb. 8, 2014**

Grade Level: Awardees

Presenter: Diana McCann
& Ramona Lundberg
PAEMST Coordinators

Breakfast for PAEMST Awardees and Finalists

Saturday 8:00 am

8:00-8:30 am **Session: 70**
Dakota H **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Larry Browning
SDSU
Larry.Browning@sdstate.edu
http://cosmicworkshop.wikispaces.com

CC13-1: Cosmic Connections 2013 Paperwork
This session is for those teachers who were in the NCLB/Title II sponsored workshop "Cosmic Connections 2013" during July of 2013 on SDSU's campus and wish to register for the additional graduate credit. Important paperwork and information will be completed during this half-hour session at the beginning of Saturday.

Saturday 8:30 am

8:30-9:20 am **Session: 72**
Prairie B **Feb. 8, 2014**
Duplicate of 9

Grade Level: 9-12

FEATURED SPEAKER
Michael Marlow
University of Colorado Denver (Retired)
Mike.Marlow@ucdenver.edu

Doing Authentic Science: Teaching for Understanding
The purpose of this session is to demonstrate how authentic science inquiries utilizing a constructive inquiry method may be incorporated into a high school science curriculum. Participants will participate in a series of connected hands-on activities designed to follow the constructivistic inquiry method resulting in a deep understanding.

Saturday 8:30 am

8:30-10:20 am **Session: 71**
Prairie A **Feb. 8, 2014**

Grade Level: K-5

FEATURED SPEAKER
Sandy Atkins
Creating AHAs
SAtkins@creatingahas.com
http://www.creatingahas.com

Using Multiple Representations to Build Conceptual Understandings of Fractions
Participants will examine the purposeful use of concrete, pictorial, verbal and symbolic representations to build conceptual understandings of fractional relationships. Sample activities for immediate classroom use will be shared.

8:30-10:20 am **Session: 73**
Prairie C **Feb. 8, 2014**
Duplicate of 46

Grade Level: 6-8

FEATURED SPEAKER
Fawn Nguyen
Mesa Union Junior High
FawnpNguyen@gmail.com
http://fawnnguyen.com

Problem Solving Tasks and Using Visual Patterns
Participants will see strategies for implementing problem solving in the classroom, where to find resources for rich tasks, and how visual patterns can be used to foster deep and flexible algebraic thinking.

Saturday 8:30 am

8:30-10:20 am **Session: 74**
Dakota A **Feb. 8, 2014**

Grade Level: 6-8

Presenter: Peggy Norris
BHSU/SURF
PNorris@sanfordlab.org
http://sanfordlab.ord/education

Strategies for Broadening Participation in STEM

SciGirls (www.scigirlsconnect.org) is working to change how millions of girls think about science, technology, engineering and math - aka STEM. Grounded in education research, their strategies have also been proven to work with all learners, including underrepresented youth. This workshop will be a hands-on introduction to SCIGirls resources.

8:30-9:20 am **Session: 75**
Dakota B **Feb. 8, 2014**

Grade Level: K-5

Presenter: Mari Biehl
SD Innovation Lab and the PAST Foundation
MBiehl@pastfoundation.org
http://sdinnovationlab.org

How to integrate your community into a STEM/TPBL classroom

Ms. Biehl will discuss practices for building a STEM/TPBL classroom that makes learning contextually and culturally relevant. Learn how she worked with her 2nd graders to indentify a growing concern over limited habitats for Monarch butterflies in central SD and how they used science and math infused TPBL to build a community butterfly garden.

Saturday 8:30 am

8:30-10:20 am **Session: 76**
Dakota C **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Dr. Janet Briggs
BHSU
Janet.Briggs@bhsu.edu

Next Generation Science Standards in Practice

Come and explore basic chemistry and engineering performances based on the Next Generation Science Standards. See how a series of student performances using basic kitchen materials can meet the 3 dimensions of NGSS (practices, crosscutting concepts, and disciplinary core ideas) as well as the Common Core Mathematics and Language Arts standards.

8:30-9:20 am **Session: 77**
Dakota D **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Kelly Riedell
Brookings HS
Kelly.Riedell@k12.sd.us
http://kr021.k12.sd.us

Modeling Biology

The introduction of coming NGSS and recent changes to AP Biology curriculum ask students to develop and use MODELS to communicate scientific phenomena and solve scientific problems. Come and see how modeling can be used in your classroom to increase student engagement and understanding of science content. Door prizes!

Saturday 8:30 am

8:30-9:20 am **Session: 78**
Dakota E **Feb. 8, 2014**

Grade Level: 6-8

Presenter: Misty Roberts
& Marcia Torgrude
SD DOE & TIE
Misty.Roberts@state.sd.us

Using HOT Skills to Achieve Math Success on SB Assessment
Join us to explore how the Smarter Balanced Assessment was developed and learn how to use those processes to create your own higher order thinking math questions and assessments in the classroom. Learn how Achievement Level Descriptors (ALD's) can be used to help improve students' thinking and overall success by using various WEBB level tools.

8:30-9:20 am **Session: 79**
Dakota F **Feb. 8, 2014**
Duplicate of 48

Grade Level: K-5

Presenter: Aaron Kromann
Project Lead The Way
AKromann@pltw.org
http://www.pltw.org

Elementary STEM Curriculum
Studies show that students decide as early as second grade whether they like, and think they are good at, math and science. Project Lead The Way's elementary program is designed to spark interests of K-5 students and will align to the Next Generation Science Standards and Common Core State Standards.

Saturday 8:30 am

8:30-10:20 am **Session: 80**
Dakota G **Feb. 8, 2014**
Duplicate of 50

Grade Level: 9-12

Presenter: Dr. Joan Hegerfeld-Baker
SDSU
Joan.Hegerfeld-Baker@sdstate.edu

Food Safety Scientist Curriculum
Experience the SDSU Curriculum: Food Safety Scientist. Includes virtual and hands-on labs and educational tools incorporating basic STEM concepts and laboratory techniques into food and agriculture science. Includes four units: molds and toxins in foods, pH manipulation of foods; microbial dairy inspections; water activity and moisture.

8:30-9:20 am **Session: 81**
Dakota H **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Chris Larson & Larry Browning
SDSU
Christine.Larson@sdstate.edu

CC13-2 Spherical Geometry in the Cosmos
Basic characteristics of spherical geometry are discussed with applications in astronomy. Models including balloons and Lenart Spheres will be used. This presentation is part of the NCLB/Title II sponsored workship: Cosmic Connections 2013.

Next Year's Conference is
February 5, 6, & 7, 2015!

Saturday 8:30 am

8:30-9:20 am **Session: 82**
Salon I **Feb. 8, 2014**

Grade Level: K-12

Presenter: Diana McCann
& Ramona Lundberg
PAEMST Coordinators

Tips for Winning Money
Would you like to receive $10,000? Every year, South Dakota is able to give two $10,000 awards, one in science and one in math. The Presidential Award is sponsored by the White House and the National Science Foundation.

Saturday 9:30 am

9:30-10:20 am **Session: 83**
Prairie B **Feb. 8, 2014**

Grade Level: 6-12

FEATURED SPEAKER
Sheli Smith
STEM Coordinator
SSmith@pastfoundation.org
http://www.pastfoundation.org

An Artist's Eye for Math and Science
Beauty exists all around us. So does math and science. Explore with me how to mix it all up with problem-based learning that empowers both teachers and students to express science and math with art, music, and dance.

Saturday 9:30 am

9:30-10:20 am **Session: 84**
Dakota B **Feb. 8, 2014**

Grade Level: K-5

Presenter: Liz McMillan
Sanford PROMISE
Elizabeth.McMillan@sanfordhealth.org
http://www.sanfordresearch.org/education

Diagnosing and Discussing Rare Genetic Disease
With genetics and genetic disease we can teach young students about inheritance and about how we can celebrate our differences. Teach an appreciation for these rare diseases and raising awareness of rare genetic disease through several resources with The Sanford PROMISE, CoRDS, and genesareus.org.

9:30-10:20 am **Session: 85**
Dakota D **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Sharon Rendon
RCAS/CPM
rendon@cpm.org

Fun Functions Agenda
Participants will experience several activities concerning functions. These will include using a human graph to explore functions, domain and range, and asymptotes. There will be an activity with function machines, a carousel, and a silent board game. We will end with a Function Treasure Hunt. The CCSSM Practices will be processed throughout.

Saturday 9:30 am

9:30-10:20 am **Session: 86**
Dakota E **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Matt Miller
SDSU
Matt.Miller@sdstate.edu

"Translating the NGSS for Classroom Instruction"
We will discuss a the book entitled "Translating the NGSS for Classroom Instruction." The book was written by Roger Bybee at the request of leaders involved in the development of the NGSS. Two specific chapters will be the focus: "From NGSS to Instruction in a High School Classroom" and "Planning to ADAPT Materials for Classroom Instruction."

9:30-10:20 am **Session: 87**
Dakota F **Feb. 8, 2014**

Grade Level: 6-8

Presenter: Steve Lewis
The PAST Foundation
SLewis@pastfoundation.org
http://www.pastfoundation.org

Fractions in Cool Math
Let's demystify fractions by exploring how they span mathematics and then relate these concepts to real life problems that we can solve through engaging projects with products that showcase the various modalities of learning.

Saturday 9:30 am

9:30-10:20 am **Session: 88**
Dakota H **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Chris Larson
SDSU
Christine.Larson@sdstate.edu

CC13-3 Pipe Cleaner Parabolas
Come create parabolas and discover their characteristics using pipe cleaners. This is part of a NCLB/Title II sponsored workshop entitled Cosmic Connections 2013

9:30-10:20 am **Session: 89**
Salon I **Feb. 8, 2014**

Grade Level: K-5

Presenter: Jan Martin
SD Department of Education
Jan.Martin@state.sd.us
http://www.smarterbalanced.org

Calculator Not! Why Not!
Based on the expectations of the CC standards, students in grades 3, 4, and 5 will not be allowed to use a calculator for the Smarter Balanced assessment. Why this shift? What shifts need to be occuring in the classroom for students to have them ready for the new assessments?

Next Year's Conference is February 5, 6, & 7, 2015!

Have you considered being a presenter?
Everyone here has something that they do well!

Saturday 10:30 am

10:30-11:20 am **Session: 90**
Dakota A **Feb. 8, 2014**

Grade Level: K-5

Presenter: Anne Lewis
SD Discovery Center
AnneLewis@sd-discovery.com
http://www.sd-discovery.com

Project WET
Get WET (Water Education for Teachers)! Project WET is a resource swimming with hands-on activities that extend across the curriculum to teach about water. Come learn some of the most popular activities!

10:30-11:20 am **Session: 91**
Dakota B **Feb. 8, 2014**

Grade Level: K-5

Presenter: Cindy Kroon
Montrose HS
Cindy.Kroon@k12.sd.us
http://ck022.k12.sd.us

Break-lyn Bridge: Modeling with Spaghetti
Arrivaderci cookbook data collection activities! Put on your student hat as we design an experiment, then collect data on the strength of spaghetti bridges. Participants will use modeling techniques and the scientific method during an inquiry-based activity. Itsa gonna be great!

Next Year's Conference is
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Saturday 10:30 am

10:30-11:20 am **Session: 92**
Dakota C **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Kara Schweitzer
SD DOE
http://doe.sd.gov

PLTW: How to Get Started
As school districts begin to plan and implement new and innovative curriculum, they must coordinate their resources toward a sustainable adoption. The purpose of this presentation is to provide guidance on the processes and factors a school district may consider when mplementing a new program.

10:30-11:20 am **Session: 93**
Dakota D **Feb. 8, 2014**

Grade Level: 6-8

Presenter: Joshua Schmidt
McCook Central
Joshua.Schmidt@k12.sd.us
joshuaschmidt.wikispaces.com

A Middle School MCL Classroom
This is my third year in a MCL video based clasroom. I'm hoping to give advice and answer questions for people hoping to try similar ideas.

Have you checked out
"Share the Classroom
Treasures"?
Stop in Salon I
and see what is there.

At 4:30 pm today,
these treasures become trash!

Saturday 10:30 am

10:30-11:20 am **Session: 94**
Dakota E **Feb. 8, 2014**

Grade Level: 6-12

Presenter: Jill Weimer, PhD
Sanford Research
Jill.Weimer@sanfordhealth.org
http://www.sanfordresearch.org

Neuroscience Meets Magic and a Zombie Apocalypse

Join Sanford Research neuroscientist Dr. Jill Weimer to learn about her research on brain development and pediatric neurodegenerative disorders. Dr. Weimer will discuss inquiry-based strategies for integration of neuroscience into your classroom - through topics such as drug abuse, magic and the brain, and analyzing the zombie brain.

10:30-11:20 am **Session: 95**
Dakota F **Feb. 8, 2014**
Duplicate of 17

Grade Level: All

Presenter: Sharon Vestal, Dan Van Peursem, Larry Browning, & Matt Miller
SDSU & USD
Sharon.Vestal@sdstate.edu

Meet the Future Teachers

Prospective science and math teachers from all South Dakota institutions will be invited to engage in conversation with veteran science and math teachers. The goal is to provide support and encouragement for the next generation of teachers by providing advice, encouraging stories, and successful strategies.

Saturday 10:30 am

10:30-11:20 am **Session: 96**
Dakota G **Feb. 8, 2014**

Grade Level: 6-8

Presenter: John D. Hollingsworth
University Center--Sioux Falls
John.Hollingsworth@SDUniversityCenter.org

One Sided Pentominoes

We will attempt to show that we can cover a quadrupling of any pentomino with a complete set of 18 one-sided pentominoes. We will first need a set of one-sided pentominoes. As of today I do not know if this can be done.

10:30-11:20 am **Session: 97**
Dakota H **Feb. 8, 2014**

Grade Level: 6-12

Presenter: Judy Vondruska
SDSU
Judy.Vondruska@sdstate.edu

CC4: Using NASA Space Math to Teach Math and Science Concepts

Space science and astronomy provide a great vehicle for engaging students in learning about science and math. This session will provide an overview of SpaceMath@NASA which can be used to teach many different physical science and mathematics concepts. Participants will also gain hands-on experience with various activities.

Saturday 10:30 am

10:30-11:20 am **Session: 98**
Salon I **Feb. 8, 2014**

Grade Level: K-12

Presenter: Dr. Janet Briggs
BHSU
Janet.Briggs@bhsu.edu

Using Master Gardeners to Enhance Your Science Curriculum

Are you interested in starting a school garden, a butterfly garden, or planting trees at your school? Master Gardeners are volunteers who assist others in community/school gardening; including growing vegetable gardens, fruit trees, and flowers. Learn about resources available to you and discuss options for getting students excited about gardening!

Saturday NOON

Noon-1:00 pm **Session: 99**
Prairie A, B & C **Feb. 8, 2014**

Grade Level: All

Presenter: Brenda Murphey & Ellie Cooch
SDSTA & SDCTM Presidents

Lunch

Saturday 1:00 pm

1:00-1:50 pm **Session: 100**
Prairie A **Feb. 8, 2014**

Grade Level: All

FEATURED SPEAKER
Sheli Smith
STEM Coordinator
SSmith@pastfoundation.org
http://www.pastfoundation.org

We know when kids get excited about learning there is nothing they won't tackle. We know without science and math, we couldn't replicate recipes, point masterpieces, or photograph our children. We know that in everyday life, science and math are part of everything we do, but we don't teach this way. So, how do we link learning to life for *every* kid.

1:00-2:50 pm **Session: 101**
Prairie B **Feb. 8, 2014**

Grade Level: 6-8

FEATURED SPEAKER
Michael Marlow
University of Colorado Denver (Retired)
Mike.Marlow@ucdenver.edu

Building Complex Understandings through Inquiry Activities

Participants will do a series of connected inquiry activities using flowers to demonstrate a method that moves students from base knowledge to more complex understandings. The model uses a decontruct/reconstruct methodology that may transfer over to a number of other content topics.

Saturday 1:00 pm

1:00-1:50 pm **Session: 102**
Prairie C **Feb. 8, 2014**

Duplicate of 10

Grade Level: 6-8

FEATURED SPEAKER

Fawn Nguyen
Mesa Union Junior High
FawnpNguyen@gmail.com
http://fawnnguyen.com

Hands-on Activity to Foster CCSS-M Practices
Participants will engage in classroom-tested hands-on activity to foster the Standards for Mathematical Practices. You will build "hotels" with linking cubes with the goal of maximizing profit. You will figure in building costs and consider potential income. This task is easily adaptable to many levels.

1:00-1:50 pm **Session: 103**
Dakota A **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Dr. Michael Catalano
DWU
micatala@dwu.edu

Numeracy: Nerdiness or Neurosis?
What is numeracy, why is it important, and how do we foster it in students who tend to think of math as something for nerds or crazy people? The session will include examples that can be used in a variety of classes which focus on concepts in quantitative literacy.

Saturday 1:00 pm

1:00-1:50 pm **Session: 104**
Dakota B **Feb. 8, 2014**

Duplicate of 59

Grade Level: K-5 (and 6-12)

Presenter: Michelle Regan
National Trainer
mmnregan@gmail.com

Why Some Creatures Eat Their Young… Tempted?
If you knew what we knew, you wouldn't be! Have you ever gotten through the day exhausted but unable to pinpoint why? You're the victim of all those small, annoying, time-consuming behaviors. They wear you down! Teaching doesn't have to be like that--there's hope! Learn classroom management tools to save you time and renew your energy.

1:00-1:50 pm **Session: 105**
Dakota D **Feb. 8, 2014**

Grade Level:

Presenter: Sam Shaw
SD DOE
Sam.Shaw@state.sd.us
http://doe.sd.gov

Common Core Literacy in Science
In this session, teachers will practice with an instructional planning tool to integrate literacy and writing standards into their curriculum.

Saturday 1:00 pm

1:00-1:50 pm **Session: 106**
Dakota E **Feb. 8, 2014**

Duplicate of 38

Grade Level: 9-12

Presenter: Aaron Kromann
Project Lead The Way
AKromann@pltw.org
http://www.pltw.org

Biomedical Science Curriculum
Learn how the PLTW Biomedical Science program can prepare students for college and careers related to healthcare, medicine, research, and bioengineering. Students explore the concepts of human medicine, and work collaboratively to investigate and design innovative solutions to prevalent health challenges such as fighting cancer with nanotechnology.

1:00-1:50 pm **Session: 107**
Dakota F **Feb. 8, 2014**

Duplicate of 37

Grade Level: All

Presenter: Sharon Vestal & Lisa Weier
SDSU & Mickelson MS-Brookings
sdsu.isee@sdstate.edu
http://www.sdstate.edu/isee/

What is ISEE and how can it help you?
South Dakota State University recently created the Institute for STEM Education Enhancement. This session will discuss our goals and mission, but the focus will be on how ISEE can help K-12 science and math teachers in South Dakota.

Saturday 1:00 pm

1:00-1:50 pm **Session: 108**
Dakota G **Feb. 8, 2014**

Duplicate of 25

Grade Level: 9-12

Presenter: Dr. Joan Hegerfeld-Baker
SDSU
Joan.Hegerfeld-Baker@sdstate.edu

Influence of STEM education in selecting food and ag science
Market forces identify a faster than average growth rate expected for agriculture and food scientists. SDSU research investigated the influential factors comparing STEM to non-STEM majors (n = 458) in choosing careers as well as the technology teachers (n = 239) in SD are using to teach math and science concepts.

1:00-1:50 pm **Session: 109**
Dakota H **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Larry Browning
SDSU
Larry.Browning@sdstate.edu

IPEVO Interactive Whiteboard and Socrative Website
IPEVO has introduced a camera system that will allow a projector and computer to turn a surface into an interactive whiteboard inexpensively. The IPEVO technology will be used in conjunction with the Socrative website to show ways to engage your class. Bring a web enabled device (smart phone, tablet, etc.) to join in the activities.

Saturday 2:00 pm

2:00-2:50 pm **Session: 110**
Dakota A **Feb. 8, 2014**

Grade Level: 6-8

Presenter: Jan Martin
SD Department of Education
Jan.Martin@state.sd.us
http://www.smarterbalanced.org

Calculators? Formulas? What Students Need to Know!
Based on the expectations of the CCSS, students in grades 6-8 will no longer have formula sheets for math on the Smarter Balanced assessment. Calculators will be online when appropriate. Are your students ready for these shifts in expectations? The assessment framework will be presented highlighting changes in student expectations.

2:00-2:50 pm **Session: 111**
Dakota B **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Joan Lubben
& Bethany Melroe-Lehrman
DWU
jolubben@dwu.edu
http://myweb.dwu.edu/jolubben/

Math and Models and Science, OH MY!
We'll use inquiry based learning as we develop mathematical models from real-world data and our own chemistry experiments. The activities presented encompass pre-calc, statistics, chemistry, and biology, plus we'll throw in computer and writing components to create an interdisciplinary learning experience for your math or science classroom.

Saturday 2:00 pm

2:00-2:50 pm **Session: 112**
Dakota C **Feb. 8, 2014**

Grade Level: K-5

Presenter: Steven Rokusek
SD Public Broadcasting
Steven.Rokusek@state.sd.us
http://sdpb.sd.org/ScienceIQ

Engaging Science Activities
During this session participants will learn about four science activities that will keep the children in their care entertained and educated. The activities will include, but are not limited to bubble/balloon races, Skittle Your Senses and more.

2:00-2:50 pm **Session: 113**
Dakota D **Feb. 8, 2014**

Grade Level: 6-12

Presenter: Dan Van Peursem
USD
DPeursem@usd.edu

Crack the Code
We will start with elementary codes, discuss ISBN codes, and then look at some more complicated codes. A worksheet will be distributed that you can use in your classes. This is an excellent introduction to inverse functions.

Please fill out your evaluation of the conference. We want next year's to be even better.

Saturday 2:00 pm

2:00-2:50 pm **Session: 114**
Dakota E **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Emily Koehler
DeSmet HS
Emily.Koehler@k12.sd.us

STEM Student Research
Come learn how I implemented a student research class in my district. Discussion of the book STEM Student Research Handbook by Darci J. Harland, use of Edmodo to run the class, and results of the student research projects will be included.

2:00-2:50 pm **Session: 115**
Dakota F **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Rachel Blume & Brenda Merkel
NESD Area Health Education Center
info@nesdahec.org
http://www.nesdahec.org

Hands On Health Occupations for the Science Class
This will be a demonstration of hands on activities that correlate the science class with health careers. NESD AHEC will be bringing in equipment to make this a demonstration event to take back to the classroom.

SEE YOU NEXT YEAR!

Saturday 2:00 pm

2:00-2:50 pm **Session: 116**
Dakota H **Feb. 8, 2014**

Grade Level: 9-12

Presenter: Larry Browning & Matt Miller
SDSU
Larry.Browning@sdstate.edu

Demonstrations to Spark Their Interest
We will present new demonstrations (at least different from last year) which are easy to make from materials you can find. Our goal is to present a variety of demonstrations that can be incorporated at multiple levels. The content will focus on physics and chemistry.

Saturday 3:00 pm

3:00-3:50 pm **Session: 117**
Dakota C **Feb. 8, 2014**

Grade Level: All

Presenter: Ellie Cooch

This is a chance to share your reflections on the sessions you attended at the conference.

3:00-3:50 pm **Session: 118**
Dakota G **Feb. 8, 2014**

Grade Level: All

Presenter: Brenda Murphey

This is a chance to share your reflections on the sessions you attended at the conference.

4:00-???? **Session: 119**
Boardroom **Feb. 8, 2014**

Joint Board Meeting

Representatives will be exhibiting on Friday and Saturday. These include:

Connecting Point Computer Center	**Courtney Jutting & Mark Robbins**
CPM Educational Program	**Bob Peterson**
Houghton Mifflin Harcourt	**Matt Misialek & Christina Trindle**
Innovation in Education	**Mary Lou McGirr**
Institute for STEM Ed. Enhancement SDSU	**Sharon Vestal**
North East SD Area Health Ed. Center	**Brenda Merkel & Rachel Blume**
NSTA District IX Director	**Mary Colson**
Nutritional Sciences and Extension Project	**Joan Hegerfeld-Baker**
Lead the Way	**Aaron Kromann**
Renaissance Learning	**Ron Given & Peggy Packer**
Sanford Underground Research Facility SD	**Peggy Norris**
Discovery Center (Pierre)	**Anne Lewis & Marie Steckelberg**
Activities for Learning, Inc	**Tracy Mittleider**
Sanford PROMISE	**Liz McMillan & Pete Vitiello**
Pearson	**Mike Limmer**
Learning Solutions of the Black Hills	**Bob Arnio**
McGraw - Hill	**Carol Heisel**
SD Innovation Labs	**Jill Weimer & Mari Biehl**

∗ Name Tag Lanyards are compliments of SD Game Fish and Parks

South Dakota Science Teachers Association Business Meeting
will be held in Dakota G
at 4:30 pm on Friday, February 7, 2014

SD Council of Teachers of Mathematics Business Meeting
will be held in Dakota C
at 4:30 pm on Friday, February 7, 2014

Graduate Credit

Conference credit will be offered through Dakota Wesleyan University. You may register for one hour of credit at the 499 or 599 level.. Attendance at a sharing session is required to earn graduate credit from Dakota Wesleyan University. There will be personnel available to register you for the credit on Thursday night from 7:00 to 9:00 pm, and on Friday morning from 7:30 to 8:30 am. Check in the hotel lobby for the DWU table. A syllabus listing course requirements will be available at the time of registration. For more information, contact Rocky Von Eye at (605) 995-2625.

Next year's conference will be **February 5, 6, & 7, 2015**

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2014 Mathematics and Science Conference
SDSTA & SDCTM

Please take time to respond to the following questions concerning the conference. This information will help the program committee take steps to improve future conferences. Circle one in each group:

Content Area:	Math	Science	Both
Grade Band:	Elementary	Middle School	High School

What presentation or presentations did you feel were the most useful or helpful?

What made it (or them) good?

Were there any presentations that disappointed you?

Please give us your overall assessment of the conference along with any comments you would like to share.

Detach and fill in the following for a final prize to be sent after the conference. To register for the prize turn in this entry along with your evaluation form.

_____
Name

_____
Address

_____
City, State, Zip Code

The 2014 Conference Committee would like to offer a Special Thanks to …

Dakota Weslyan University and Rocky Von Eye for handling the credit.

Coke for helping provide refreshments throughout the conference.

All speakers for their dedication to the future of mathematics and science education.

All exhibitors for their enthusiastic participation.

The **Huron Area Chamber of Commerce**, The **Huron Convention and Visitors Bureau** for a great deal of help and cooperation.

The **Huron Events Center & Crossroads Hotel** for their help and generous hospitality.

All the conference participants who make all of our efforts worthwhile and without whom there would be no conference.

A SPECIAL THANKS GOES TO TIE FOR HELPING US WITH PROJECTORS!

Join TIE at this region's premier ed tech conference and expo-April 13-15, 2014 at the Sioux Falls Convention Center.

Next year's conference will be **February 5, 6, & 7, 2015.**

The 2014 Spring Conference is a joint venture of the South Dakota Science Teachers Association (SDSTA) and the South Dakota Council of Teachers of Mathematics (SDCTM)

Note: There is a common registration form for the conferences. One form is used to register for all activities, including SDSTA and SDCTM memberships.

ONE-day (SDCTM or SDSTA members) includes the Noon Luncheon for that day	$50	Non-members	$100	Students $15
TWO-day (SDCTM or SDSTA members) includes the Noon Luncheon for both days	$75	Non-members	$125	Students $25

The Friday Night Banquet is **NOT** included in the registration fee. A ticket for the banquet may be obtained at an additional cost of **$25**.

Because of a limited printing budget, the program was available in advance at the SDCTM website [www.sdctm.org] or SDSTA web site [www.sdsta.org]. Printed programs were not mailed, but were distributed on site with the registration materials.

Share the Classroom Treasures
Salon
Symposium
BoardRoom
(Speakers)
Conference Registration
Elevator
Hall of Exhibits & Vendors
DAKOTA D
DAKOTA C
DAKOTA B
DAKOTA A
DAKOTA H
DAKOTA G
DAKOTA F
DAKOTA E
(PRAIRIE C)
(PRAIRIE B)
(PRAIRIE A)
MEN'S RESTROOM
WOMEN'S RESTROOM
PLAZA
HURON CROSSROADS AND EVENT CENTER
HURON EVENT CENTER