

# February 4, 5, & 6, 2010 Crossroads Convention Center Huron, SD

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# Featured Speakers

### BANQUET SPEAKER—Keith E. Van Tassel



Keith E. Van Tassel has been an Engineer at the NASA, Johnson Space Center (JSC) since 1980 where he is currently the Project Manager for Pyrotechnics and the JSC Explosives Safety Officer. Mr. Van Tassel has previously served as the Agency's Technical Warrant Holder for Pyrotechnics for all the NASA Centers throughout the U. S. Mr. Van Tassel is also the chairman of the NASA Pyrotechnics Working Group (PWG).

As the Team Lead for JSC pyrotechnics, Mr. Van Tassel managed a team of pyrotechnic engineers that provided pyrotechnic devices and testing for the Space Shuttle Program, Constellation Program, and several JPL programs. Some of the JPL projects included the Huygens probe that landed on the Saturn moon of Titan, the Mars Surveyor Rovers, Spirit and Opportunity, and the Deep Impact spacecraft that landed on Comet Tempel 1.

Mr. Van Tassel holds a BSME from Washington University in St. Louis, Missouri and a BA in Physics from Hamline University in St. Paul, Minnesota. He is a 1974 graduate of Watertown Senior High School in Watertown, South Dakota.

Mr. Van Tassel spent his formative years in Redfield and then Watertown, South Dakota where he spent much of his time playing with fireworks in the summers, and shoveling snow in the winters. In 1963, he earned the Jr. Tinkertoy Engineer Award. Mr. Van Tassel currently lives in Seabrook, Texas with his wife and the two youngest of his four children. Come enjoy Keith's talk on how junior-senior high students may fulfill their dream occupation.

#### OTHER FEATURED SPEAKERS

Penny Roberts is a curriculum specialist at Greenville Elementary School in Greenville, Kentucky where she works with K-5 students and teachers. She has been in education for 24 years. During her career, she has been an elementary and middle school teacher, served as an elementary mathematics consultant for the Kentucky Department of Education, and has won a number of teaching awards including being named the 2005 Kentucky Elementary Teacher of the Year.

Andrew Weaver is a master teacher at Stillwater Area High School, Stillwater, MN. Andrew teaches biology, Advanced Placement Biology and Field Biology at Stillwater High and also teaches courses designed for teachers in Prairie Ecology, Field Biology and Ornithology through Hamline University in Saint Paul, MN. Andrew is a teacher's teacher with twenty-three years experience of sharing his excitement for biology in his classroom. Andrew received his Masters degree from the University of Minnesota, has also worked for the Minnesota Zoo and the Science Museum of Minnesota. As a Master Falconer, Andrew trains and hunts with raptors, including peregrine falcons and red-tailed hawks. Andrew has a 55 acre outdoor school lab with 15 acres of prairie and also runs an archery club in his school. Some of his other interests include prairie restoration, bear hunting, triathlons, knife making and purebred dog racing.

Chris Olsen taught mathematics and statistics in Cedar Rapids, IA, for over 30 years and is now a Lecturer in Statistics at Cornell College. He was the Iowa recipient of the Presidential Award for Excellence in Science and Mathematics Teaching in 1986, Regional Awardee of the IBM Computer Teacher of the Year award in 1988, and a recipient of the 1999 Siemens Award for Advanced Placement in mathematics. He has reviewed materials for The Mathematics teacher, The American Statistician, and the Journal of the American Statistical Association, and writes a regular column for STATS magazine. He has served on the AP Statistics Test Development Committee (twice) and the Mathematics Standing Committee of NAEP, the National Assessment of Educational Progress exam (once).

Karen Kraemer is a retired chemistry biology teacher from Willmar Senior High School, Willmar MN. One of her specialties is helping teachers incorporate evolution and the nature of science in the curriculum. Karen provides a wealth of resources and has published several articles on this topic.

**2010 Spring 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 4, 2010

	• ,	
7:00 PM - 9:00 PM	Evening Sessions	(See Program)
	Friday, February 5, 2010	
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 (included in registration fee) Afternoon Sessions	Prairie Ballrooms
1:30 PM - 4:20 PM		(See Program)
4:30 PM	SDCTM Business Meeting SDSTA Business Meeting	Dakota C Dakota G
6:30 PM	Friday Evening Banquet (Cost is \$20)	Prairie A, B, C
	Saturday, February 6, 2010	
7:00 AM - 11:20 AM 7:00 AM - 8:00 AM	Registration Open Breakfast Meeting Presidential Awardees (Past & Prese	Pre-Function Area Salon ent)
8:30 AM - 11:20 AM	Morning Sessions	(See Program)
12:00 Noon - 1:00 PM	Saturday Luncheon	Prairie A, B, C
1:00 PM - 3:50 PM	(included in registration fee) Afternoon Sessions	(See Program)
4:00 PM	Joint SDCTM & SDSTA Executive Board Meeting	Boardroom

## Conference Planner for THURSDAY, February 4, 2010 (This is for your use only.)

1<sup>st</sup> Choice 2<sup>nd</sup> Choice

7:00 PM

## Conference Planner for FRIDAY, February 5, 2010

Remember to visit the exhibits in the Lobby and Hallways of the Crossroads Hotel.

	1st Choice	2 <sup>nd</sup> Choice	3 <sup>rd</sup> Choice
8:30 AM			
9:30 AM			
10:30 AM			
12:00 AM	Friday Noon Luncheon in Prairie A, B, C		
	1st Choice	2 <sup>nd</sup> Choice	3 <sup>rd</sup> Choice
1:30 PM			
2:30 PM			
3:30 PM			
4:30 PM	SDCTM BUSINESS MEETING in the Dakota C SDSTA BUSINESS MEETING in Dakota G		
6:30 PM	Friday Night Banquet in Prairie Ballrooms A, B, C (Banquet Tickets Required-Cost is \$20)		

## Conference Planner for SATURDAY, February 6, 2010

4:00 PM	SDCTM & SDSTA JOINT	BOARD MEETING in the l	Boardroom
3:00 PM			
2:00 PM			
1:00 PM			
	1 <sup>st</sup> Choice	2 <sup>nd</sup> Choice	3 <sup>rd</sup> Choice
12:00 Noon	Saturday Noon Luncheon in	n Crossroads Hotel—Prairie	e Ballrooms A, B, C
10:30 AM			
9:30 AM			
8:30 AM			
	1 <sup>st</sup> Choice	2 <sup>nd</sup> Choice	3 <sup>rd</sup> Choice

Next year's conference will be February 3, 4, & 5, 2011

Representatives will be exhibiting on Friday from 8:00 AM until 5:00 PM. These include:

Big Ideas Learning-Math Tim Doppler

Connecting Point Computer Centers

Nola Redmond & Dave Lewis

Heinemann Publishing Tim Doppler
Invent Now Kids/ Susan Z. Clarke

& Camp Invention & Club Invention

It's About Time-Herff Jones Education Div.Kevin SchroederLearning Power/TIEMary Lou McGirr

National Geographic School Publishing Tim Doppler

SD Health Career Connections Network Marie Steckleberg

& SD Healthcare Workforce Center

SD Discovery Center (Pierre)

SD GFP-Outdoor Campus West

SD Public Broadcasting

Steven Rokusek

Texas Instruments Tom Allen
US Army Corps of Engineers Gene Bormann
Whippourwill Brenda Robertson

Wildlife Experiences, Inc. Maggie Engler & Julia Avison

Zaner-Bloser-Language Arts & Reading Co. Tim Doppler

South Dakota Science Teachers Association Business Meeting will be held in Dakota G at 4:30 pm on Friday, February 5, 2010

SD Council of Teachers of Mathematics Business Meeting will be held in Dakota C at 4:30 pm on Friday, February 5, 2010

#### **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.

<sup>\*</sup>Name Tag Lanyards are compliments of SD Game Fish and Parks

#### **SDCTM**

#### **President:**

Cindy Kroon 46223 262 ST Hartford, SD 57033 cindy.kroon@k12.sd.us

#### **President-Elect:**

Jay Berglund 204 S Exene St. Gettysburg, SD 57442 Jay.berglund@k12.sd.us

#### **Past-President:**

William Gripentrog 916 2<sup>nd</sup> St NE Watertown, SD 57201 william.gripentrog@k12.sd.us

#### **Vice-President:**

Steve Caron 907 South 16<sup>th</sup> Street Aberdeen, SD 57401 Steve.Caron@k12.sd.us

#### Secretary:

Brenda Danielson 711 4<sup>th</sup> St. Scotland, SD 57059 Brenda.Danielson@k12.sd.us

#### Treasurer:

Diana McCann 41876 Appletree Road Springfield, SD 57062 dm57062@valyou.net

#### **NCTM Representative:**

Allen Hogie 416 Country Club Ave. Brandon, SD 57007 Allen.Hogie@k12.sd.us

#### **SDSTA**

#### **President:**

Ramona Lundberg PO Box 770 Clear Lake, SD 57226 Ramona.Lundberg@k12.sd.us

#### **President-Elect:**

Molly TenBroek 9170 Highway 31 McIntosh, SD 57641 Molly TenBroek@k12.sd.us

#### **Past-President:**

Micheline Hickenbotham 19650 Mossing Ln Spearfish, SD 57783 MichelineHickenbotham@bhsu.edu

#### Treasurer:

Brant Miller 1030 27<sup>th</sup> Ave SE Apt. F Minneapolis, MN 55414 mill3770@umn.edu

#### Secretary:

Brenda Murphey 21 St. Joe Rapid City, SD 57701 Brenda.murphey@k12.sd.us

#### **Elementary Liaison:**

Marcy Farrand 4009 Brookside Dr. Rapid City, SD 57701 Marcy Farrand@k12.sd.us

#### Middle School Liaison

Nicole Keegan 3701 Parkview Dr. Rapid City, SD 57701 Nicole Keegan@k12.sd.us

#### **Secondary Liaison:**

Julie Olson 600 W. 3<sup>rd</sup> Ave. Mitchell, SD 57301 Julie Olson@k12.sd.us

#### **College Liaison:**

Larry Browning 405 20<sup>th</sup> Ave. Brookings, SD 57006 Larry.Browning@sdstate.edu

#### **CONFERENCE**

#### **Conference Coordinator:**

Jean Gomer Box 96 White, SD 57276 Jean.gomer@k12.sd.us

#### **Vendor Coordinator**

Mark Farrand 4009 Brookside Dr. Rapid City, SD 57701 Mark.Farrand@k12.sd.us

#### **Hospitality Coordinators:**

Marcy Farrand
4009 Brookside Dr.
Rapid City, SD 57701
Marcy.Farrand@k12.sd.us
&
Brenda Murphey
21 St. Joe
Rapid City, SD 57701
Brenda.murphey@k12.sd.us

#### **Technoligy Coordinator**

William Gripentrog 916 2<sup>nd</sup> St NE Watertown, SD 57201 william.gripentrog@k12.sd.us

#### **COMMUNICATIONS**

## SDSTA Newsletter Advisors: Webmaster:

James Stearns 15 N. Fifth St. Groton, SD 57445 James.Stearns@k12.sd.us

#### **SDCTM Newsletter Editor:**

Sheila McQuade 2105 S Melanie Ln Sioux Falls, SD 57103 smcquade2@sfcss.org

#### **SDCTM Webmaster:**

Cindy Kroon 46223 262 ST Hartford, SD 57033 cindy.kroon@k12.sd.us

#### The 2010 Conference Committee would like to offer a Special Thanks to ...

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

**Pepsi** for helping provide refreshments throughout the conference.

**Pearson-Prentice-Hall** for helping provide morning refreshments.

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!

Next year's conference will be February 3, 4, & 5, 2011.

The 2010 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) \$40 Non-members \$70 Students \$15 includes the Noon Luncheon for that day
TWO-day (SDCTM or SDSTA members) \$60 Non-members \$90 Students \$25 includes the Noon Luncheon for both days

The Friday Night Banquet is **NOT** included in the registration fee. A ticket for the banquet may be obtained at an additional cost of **\$20**.

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.

## 2010 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.

merp the program committee tan	o steps to improve fatare conferences.	
What presentation or presentation	ons did you feel were the most useful or helpful	?
What made it (or them) good?		
Were there any presentations that	at disappointed you?	
Please give us your overall assesshare.	ssment of the conference along with any comm	ents you would like to
Detach and fill in the following turn in this entry along with you	for a final prize to be sent after the conference.  Ir evaluation form.	To register for the prize
Name	;	
Addre	ess	
City,	State, Zip Code	