

17th Annual

Joint Conference

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

February 5, 6, & 7, 2009
Crossroads Convention Center
Huron, SD

Table of Contents

| | |
|--|------|
| Featured Speakers | 1 |
| Conference Overview | 2 |
| PROGRAM | 3-28 |
| Conference Planner for Friday, February 6, 2009 | 29 |
| Conference Planner for Saturday, February 7, 2009..... | 30 |
| Credit information..... | 31 |
| Sales Representatives & Exhibitors | 31 |
| 2006-2008 Officers | 32 |
| 2009 Conference Committee Special Thanks..... | 33 |
| Conference Evaluation Form | 34 |

Graduate Credit is available through DWU-Mitchell.

Next year's conference will be **February 4, 5, & 6, 2010.**

Featured Speakers

BANQUET SPEAKER—Ed Porthan



Dr. Ed Porthan is a lifelong educator with a mission to make a positive difference in the lives of people. Through his knowledge and experience, he will “inspire to perspire”. He’ll empower you to grow in your work environment and personal life. His friendly, open and sometimes humorous manner will engage your mind. He will challenge you to “learn...do...be” your best. Dr. Porthan’s undergraduate degree was earned at Hamline University. His master’s degree is from the University of St. Thomas and his doctorate degree is from the University of Northern Colorado in experiential education. His post doctoral work was completed at UCLA.

Dr. Porthan was a high school teacher and swimming coach for 18 years. He has served as a principal, assistant superintendent, director of curriculum and instruction, and director of training and development. He was also the executive director of the Minnesota Administrator’s Academy. Ed founded **Embracing Excellence**, a private training and consulting firm which focuses on human learning, performance and using the brain to attain maximum productivity. Ed’s most recent adventure is the development of “Boats, Streams, and Dreams”, a motivational video guaranteed to be a memorable learning experience.

OTHER FEATURED SPEAKERS

Dr. Jose Alonso, director of the Sanford Underground Laboratory at Homestake, will be making presentations relating to current progress at Homestake and how the worldwide demand for "deep" science labs is creating opportunities all across South Dakota. Dr. Alonso brings a lifetime of professional research experience to our conference. He retired from Lawrence Berkeley National Laboratory in California after a 30-year career in accelerator physics. After his so-called retirement, Dr. Alonso spent four years directing the assembly of a major experiment at the new Large Hadron Collider in Switzerland. A year ago Dr. Alonso agreed to become Director of the Sanford Lab at Homestake -- an opportunity he called "the chance of a lifetime."

Dr. Don Balka, Professor Emeritus of Mathematics at Saint Mary’s College, Notre Dame, Indiana, will be presenting sessions for grades K-9. They include: Activities with Random Digits: with and without Manipulatives, Algebra Tiles: Representing the Big Idea, Unifix Cub Activities for the Primary Grades, Games and Activities for Prealgebra and Algebra. Dr. Balka spent several years teaching junior and senior high school mathematics before joining the Mathematics/Math Education Department at Saint Mary’s College. He has done workshops in 48 states and 15 countries over the last 35 years.

Tom Muchlinski is the NCTM ASC representative for Central Region 2. He has been involved in K-16 mathematics education for 25 years as a secondary math teacher, curriculum coordinator, and teacher educator. Tom received his PhD in mathematics and mathematics education from UNC in 1995, and the PAEMST for secondary mathematics in 1996. He is currently the Executive Director of Minnesota CTM.

Dr. Murray Siegel, a Presidential Awardee and Woodrow Wilson National Fellowship Foundation Master Teacher, will host sessions of interest to teachers at all grade levels. His sessions include: Real Data Makes Functions Come Alive, The Truth about Fractions, Decimals and Percents, Polynomials are Numbers, Too!, The Truth about Integers and Exponents, The Truth about Whole Numbers, Discovering the Derivative on the Graphing Calculator, and Engaging Activities to Promote Computational Competency. Dr. Siegel has spent 35 years teaching mathematics from first grade through graduate school. He is currently teaching at Central Arizona College and Arizona State University.

Nate Jones will discuss the newly opened Wessington Springs Wind Project at Wessington Springs, SD. The Wessington Springs Wind Farm consists of 34 new General Electric 1.5 megawatt (MW) wind turbines, generating enough clean and renewable energy to power 15,000 homes per year. The 51-megawatt (MW) Wessington Springs Wind Farm will provide clean and renewable energy to the USD and SDSU, which will become the first universities in the Midwest to be powered with 100% renewable energy. Mr. Jones will discuss how this new wind farm that began production in the spring of 2008, will help encourage the further development of wind energy throughout our great state and how harnessing the strong wind resources in South Dakota, creates a new and sustainable source of clean energy that can be utilized now and for the future.

2009 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 5, 2009

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

Friday, February 6, 2009

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 Prairie Ballrooms
(included in registration fee)

1:30 PM - 4:20 PM Afternoon Sessions (See Program)

4:30 PM SDCTM Business Meeting Dakota C

SDSTA Business Meeting Dakota G

6:00 PM Reception Sponsored by Holt

7:00 PM Friday Evening Banquet Prairie A, B, C
(Cost is \$20)

Saturday, February 7, 2009

7:00 AM - 11:20 AM Registration Open Pre-Function Area

7:00 AM - 8:00 AM Breakfast Meeting Salon

Presidential Awardees (Past & Present)

8:30 AM - 11:20 AM Morning Sessions (See Program)

12:00 Noon - 1:00 PM Saturday Luncheon Prairie A, B, C
(included in registration fee)

1:00 PM - 3:50 PM Afternoon Sessions (See Program)

4:00 PM Joint SDCTM & SDSTA Boardroom
Executive Board Meeting

Conference Planner for THURSDAY, February 5, 2009
(This is for your use only.)

1st Choice

2nd Choice

7:00 PM

Conference Planner for FRIDAY, February 6, 2009

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

1st Choice

2nd Choice

3rd Choice

8:30 AM

9:30 AM

10:30 AM

12:00 AM

Friday Noon Luncheon in Prairie A, B, C

1st Choice

2nd Choice

3rd 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

6:00 PM

Reception Sponsored by Holt in Pre-Function Area

7:00 PM

Friday Night Banquet in Prairie Ballrooms A, B, C
(Banquet Tickets Required-Cost is \$20)

Conference Planner for SATURDAY, February 8, 2008

1st Choice

2nd Choice

3rd Choice

8:30 AM

9:30 AM

10:30 AM

12:00 Noon

Saturday Noon Luncheon in Crossroads Hotel—Prairie Ballrooms A, B, C

1st Choice

2nd Choice

3rd Choice

1:00 PM

2:00 PM

3:00 PM

4:00 PM

SDCTM & SDSTA JOINT BOARD MEETING in the Boardroom

Next year's conference will be **February 4, 5, and 6, 2010.**

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

| | |
|---|--------------------------------------|
| Connecting Point Computer Centers | Nola Redmond & Dave Lewis |
| Great Source, Rigby and Steck-Vaughn | |
| It's About Time-Herff Jones Education Div. | |
| Saxon Publishing | Jeri Ball |
| SD Discovery Center (Pierre) | |
| SD Game, Fish & Parks | Chad Tussing |
| Texas Instruments | Tom Allen |
| US Army Corps of Engineers | |

***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 6, 2009

SD Council of Teachers of Mathematics Business Meeting
will be held in Dakota C
at 4:30 pm on Friday, February 6, 2009

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 4, 5, and 6, 2010.**

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**2009 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.

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 2009 Conference Committee would like to offer a Special Thanks to ...

Dakota Wesleyan 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 4, 5, and 6, 2010.**

The 2009 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.