



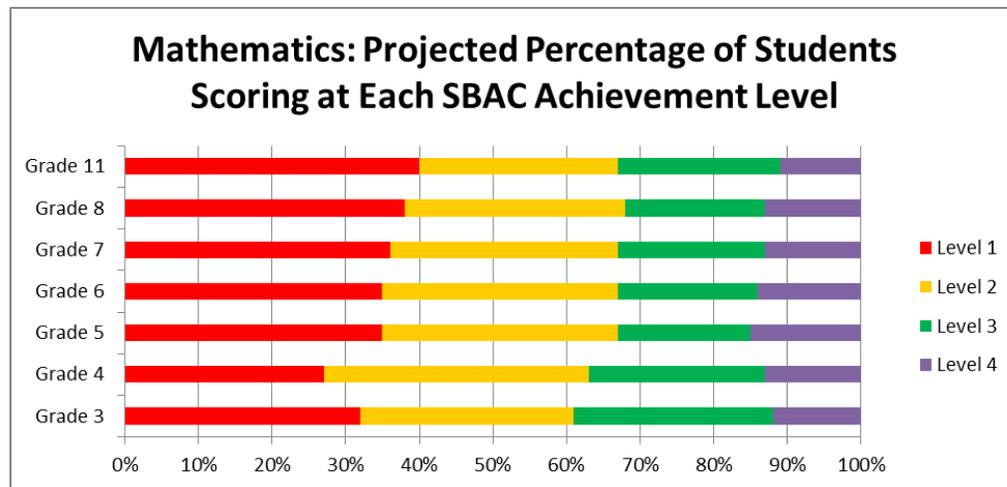
# Wahpe Woyaka pi

( Talking Leaf )

South Dakota Council Teachers of Mathematics Newsletter

## Smarter Balanced Achievement Level Cut Scores Approved by Consortium, Based on Field Test Data

The new SBAC assessments are designed to let teachers and parents know whether their students are on track for college and career readiness by the time they graduate from high school. Because the new standards set more rigorous expectations for students, the definition of grade level performance is higher than it used to be. It is likely that fewer students will meet grade level standards. SBAC notes that students scoring at levels one and two (approximately 2/3 of students) are considered in need of remediation.



## Mathematics: Projected Percentage of SD Students\* Scoring at Each Achievement Level on 2015 SBAC Assessment

	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
<b>ALD Level 1**</b> <i>Minimal understanding</i>	32	27	35	35	36	38	40
<b>ALD Level 2**</b> <i>Partial understanding</i>	29	36	32	32	31	30	27
<b>ALD Level 3**</b> <i>Adequate understanding</i>	27	24	18	19	20	19	22
<b>ALD Level 4**</b> <i>Thorough understanding</i>	12	13	15	14	13	13	11

WINTER 2014-2015

## Wahpe Woyaka pi

### Inside this issue:

<i>Cover story continued</i>	2
<i>2014 PAEMST Finalists</i>	3
<i>PAEMST: Call for Nominations</i>	4
<i>Earn 3 CEU's</i>	4
<i>Dordt College Math Challenge</i>	5
<i>Share the Classroom Treasures</i>	5
<i>9-12 Spotlight</i>	6
<i>2015-2016 SDCTM Executive Board Elections</i>	6
<i>Higher Ed Viewpoint</i>	7
<i>Allen Hogie named SD Teacher of the Year</i>	8
<i>USD School of Education</i>	9
<i>Goehring/Veitz Scholarship</i>	10
<i>SDCTM/SDSTA Conference Registration</i>	11
<i>SDCTM Membership Form</i>	12
<i>SDCTM Executive Board</i>	13

### Calendar Notes:

- PAEMST Nominations Due April 1, 2015
- PAEMST Applications Due May 1, 2015
- SDCTM/SDSTA Conference February 5 - 7, 2015

Continued on page 2



## Cut Scores Approved, *continued*

### Implications for High School Students and Teachers

South Dakota Board of Regents plans to use 11th grade Smarter Balanced scores for university math course placement. Student SBAC scores will be used to determine placement into either freshman level credit-bearing or remedial (non-credit bearing) courses. SDBOR expects this decision to make the state assessment more meaningful to high school students.

- ☞ Level 4 students demonstrate **thorough** understanding of the knowledge and skills need for college and career readiness. Students should consider enrolling in dual-credit or AP courses during their senior year.
- ☞ Level 3 students demonstrate **adequate** understanding of the knowledge and skills needed for success in college and career readiness. Students should complete rigorous senior-level courses to stay on track.
- ☞ Level 2: Students demonstrate **partial** understanding of the knowledge and skills needed for success in college and career readiness. Students should enroll in a remedial math class during their senior year.
- ☞ Level 1: Students demonstrate **minimal** understanding of the knowledge and skills needed for success in college and career readiness. These students will need intensive remediation to develop the skills and knowledge needed for success in college and careers.

\*Based on spring 2014 Smarter Balanced Field Test results  
<http://doe.sd.gov/pressroom/zebra/news/14/dec/Page2.html>

\*\*A more complete explanation of ALD Level Descriptors can be viewed at  
<http://www.smarterbalanced.org/wordpress/wp-content/uploads/2012/11/Smarter-Balanced-Math-ALDs.pdf>

<http://www.smarterbalanced.org/>

Cindy Kroon  
Montrose High School  
cindy.kroon@k12.sd.us

*“SDBOR expects this decision to make the state assessment more meaningful to high school students.”*



## 2014 PAEMST State Finalists Announced

Julie Hatling, Crystal McMachen, and Lori Stverak are announced as State-Level Finalists for the 2014 Elementary Mathematics Presidential Awards.

Julie Hatling, a teacher at Belle Fourche Middle School, Belle Fourche, SD has been teaching for 10 years. She currently teaches 5 sections of 5th grade mathematics and has implemented a mass customized math period where students work on electronic individualized paths in leveled groups. Julie graduated from Black Hills State University with her Bachelors degree in Elementary Education in 2005. Since that time she has earned her Master's degree in Curriculum and Instruction and a Mathematics Specialist Endorsement from Black Hills State University and most recently in 2013 her Education Specialist degree in PK-12 Administration from the University of South Dakota. Julie has also earned the distinction of being Nationally Board Certified in Early Adolescence Mathematics.

Crystal McMachen, a teacher at East Middle School in Rapid City, SD has been teaching for 15 years. She currently teaches 4 sections of 6th grade math, 1 section of Math 1 (accelerated 8th grade math), and 1 section of 6th grade Directed Math. She graduated from the University of South Dakota in 2000 with a Baccalaureate of Science degree in Elementary Education and earned her Master of Science degree in Curriculum and Instruction from Black Hills State University in 2005. Crystal has also been honored by being chosen as East Middle School Teacher of the Year in 2013.

Lori Stverak, a teacher at Valley View Elementary School in Rapid City, SD has been teaching for 16 years. She currently teaches special education. She graduated from Black Hills State University with Bachelor of Science degrees in Elementary Education and Special Education in 1998 and earned her Master of Arts degree in Reading from the University of Sioux Falls in 2004 and obtained a Specialist Endorsement in Math Instruction from Black Hills State University in 2013.

The Presidential Awards for Excellence in Mathematics and Science Teaching program was established in 1983 by the White House, is sponsored by the National Science Foundation, and are the nation's highest honor for mathematics and science teachers. The program identifies outstanding mathematics and science teachers for grades k-12 in all 50 states and four U.S. jurisdictions.

Every year up to 108 National Awardees each receive a \$10,000 award, a paid trip for two to Washington, DC to attend a week-long series of networking opportunities and recognition events, and a special citation signed by the President of the United States.

**Know a Great 7-12 Math Teacher? Nominate him or her to receive the Presidential Teaching Award!**

*Julie Hatling, Belle Fourche, Crystal McMachen, Rapid City, and Lori Stverak, Rapid City have been selected as the SD State PAEMST finalists for 2014.*



## PAEMST Call for Nominations

The Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) program is pleased to announce that nominations for the 2014-2015 award year are open. Nominating PAEMST candidates is an integral component to a successful candidate pool. With your help, we hope to recognize and honor South Dakota's best math teachers.

To submit a nomination for an exceptional grades 7-12 teacher, complete the nomination form available on the [PAEMST website](#), and submit the teacher's name, email address and school contact information. If you know more than one teacher deserving of this award, you may submit multiple nominations. The 2014-2015 **nomination deadline is April 1, 2015**, and the **application deadline is May 1, 2015**. Teachers may also apply directly at [www.paemst.org](http://www.paemst.org).

Allen Hogie has been appointed as our state coordinator for the PAEMST. Please contact Allen, at [allen.hogie@k12.sd.us](mailto:allen.hogie@k12.sd.us) if you have any questions.

### Apply for the Presidential Award for Excellence in Mathematics and Science Teaching and earn 3 CEU's at the same time!

To be eligible, a PAEMST candidate must complete all components of the application process and submit a completed application that can be sent on to the state selection committee. All applicants submitting a completed application will earn credit, not just the state finalists whose materials will be sent on to a national selection panel.

The PAEMST application consists of three components: Administrative, Narrative, and Video. The components allow the applicant to provide evidence of deep content knowledge and exemplary pedagogical skills that result in improved student learning. After eligibility is confirmed and technical specifications are met, each application will be evaluated using the following five Dimensions of Outstanding Teaching:

- Mastery of mathematics or science content appropriate for the grade level taught.
- Use of instructional methods and strategies that are appropriate for students in the class and that support student learning.
- Effective use of student assessments to evaluate, monitor, and improve student learning.
- Reflective practice and life-long learning to improve teaching and student learning.
- Leadership in education outside the classroom.

The **Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST)** is the highest honors bestowed by the United States government specifically for K-12 mathematics and science teaching. The **Application Deadline is May 1, 2015**, for secondary school teachers (grades 7-12). Complete the application yourself or nominate a deserving teacher today! The application can be accessed at [www.paemst.org](http://www.paemst.org).

*“Nominate a 7-12 teacher for #PAEMST! The Highest Honor bestowed by U.S. Gov. for K-12 teachers .”*



*If you have questions about this program, please contact Allen Hogie, SD PAEMST Mathematics Coordinator, at [allen.hogie@k12.sd.us](mailto:allen.hogie@k12.sd.us).*



## Dordt College Math Challenge

Greetings !!

The 2015 Dordt College Math Challenge will be held on Friday, January 23.

This will be a great day of ...

- student competitions ~ with prizes
- break-out sessions for students: discussions and hands-on experiences with Dordt College professors in math and related subjects
- professional development opportunities for teachers
- presentation by a keynote speaker who will share about his job in the field of Actuarial Science

There is no charge ...

lunch and snacks are included

travel reimbursement is possible for students coming from a distance

### Registration

Students may come as individual participants, or teachers may register themselves and their students. All are welcome !!

*Registration deadline is January 15.*

Check out the website for more details: [http://dordt.edu/events/math\\_challenge/](http://dordt.edu/events/math_challenge/)

*“There is no charge...lunch and snacks are included. Travel reimbursement is possible...”*

## Share the Classroom Treasures



“Share the Classroom Treasures” has been a huge success at recent conferences. It is amazing the number of items that change hands! What a wonderful way to support one another. Don’t forget to bring your “Treasures” that are no longer of use to yourself...and be sure to stop by the “Sharing” space. You just might find something that you can’t live without. :)

Remember ... Leave school items at school...only bring personal items to “share”.





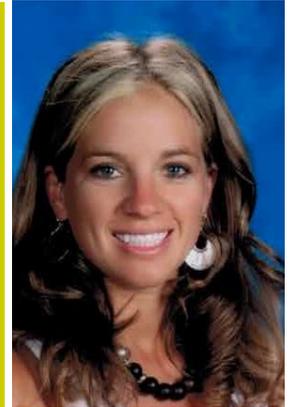
## 9-12 Spotlight

I hope you had a joyous Christmas and Happy New Year!! Remember to mark your calendars for the 23rd Annual SDCTM/SDSTA Conference held in Huron February 5th – 7th. If you have any issues you would like me to bring up at the SDCTM business meeting for the joint board meeting please e-mail at [lindsey.brewer@k12.sd.us](mailto:lindsey.brewer@k12.sd.us). This a great conference for k-12+ educators looking for new and innovated teaching strategies. Check out the SDCTM website for scholarship information to help deter some costs. Nominations are open for the 2015 Presidential Award for Excellence in Mathematics and Science teaching. Consider nominating that outstanding 7-12 math or science teacher. I look forward to seeing all of you in February.

Lindsey Brewer

SDCTM HS Liaison

[Lindsey.Brewer@k12.sd.us](mailto:Lindsey.Brewer@k12.sd.us)



*“Mark your calendars for the 23rd annual SDCTM/SDSTA Conference “*

## 2015-2016 SDCTM Executive Board Elections

Nominations Sought for 2015-2016 Executive Board Positions

The nominating committee is lining up a slate of candidates for the upcoming 2015-2016 election cycle. The following positions are open for nomination:

President-elect (must be NCTM member)

Vice President

Secretary

Treasurer

NCTM Representative (must be NCTM member)

Do you know of someone who would be willing to serve? Nominate them (or you can nominate yourself). Please send your nominations to [cindy.kroon@k12.sd.us](mailto:cindy.kroon@k12.sd.us) by January 31. The election will be held during the SDCTM annual business meeting Feb. 6, 2015 in Huron SD.

Cindy Kroon

SDCTM President-elect

Montrose High School

Montrose SD 57048



## Higher Ed Viewpoint

As I type this newsletter many of us are taking some much needed time off over the holiday break. We are reflecting on what worked in the classroom this past semester and what may need some adjustments to try again. And of course, anyone in education knows that we have our share of “scrap pile” ideas that just didn’t meet with the results we had hoped for. I guess that is what keeps us going in the field of education, we love to try new ideas and the challenges of implementing them in our classrooms.

I have talked a lot about the dual credit and remediation efforts in the past newsletter. Currently, university registrars are busy verifying grades so I can’t give you any results on the dual credit courses your students took with us this past fall. Hopefully at the SDCTM session in February that we usually host we can have an update for you. We will continue to work with the high schools to continue to improve that experience for all involved.

The other item of interest that I would like to share with you would be the current discussions on placement at the SDBOR institutions. First of all, we hope to have a policy in place shortly that would allow a placement in coursework below Math 104 for those students that score a level 3 or 4 on the Smarter Balance Assessments. More information will be forwarded when that has all been worked out. Also, we are working on improving the Accuplacer for a placement test in lieu of the current COMPASS exam. This will allow students greater flexibility for taking a placement exam. Please know that in all of these new placement guidelines, it will just be another data point to help us make better decisions and the current ACT and other guidelines will still be honored as well.

I do wish you all the very best on your upcoming semester and look forward to seeing you all in Huron in February. If you ever have any questions, please feel free to inquire. I can be reached most readily by email at [Dan.VanPeursesem@usd.edu](mailto:Dan.VanPeursesem@usd.edu).

Best wishes,

SDCTM Liaison to Higher Education  
Professor and Dept. Chair  
The University of South Dakota



*“...we love to try new ideas and the challenges of implementing them in our classrooms.”*



## Allen Hogie 2015 SD Teacher of the Year

Allen Hogie, Brandon Valley High School math teacher, has been selected as the 2015 South Dakota Teacher of the Year. The announcement was made at a special recognition banquet Oct. 16, at the Best Western Ramkota Hotel and Conference Center in Pierre.

Hogie is a National Board Certified Teacher and serves as a mentor to other teachers seeking certification. In 2007, he received the Presidential Award for Excellence in Mathematics and Science Teaching. He serves on the South Dakota Council of Teachers of Mathematics as a liaison to the national council. Through Northern State University's Rising Scholars Program, Hogie teaches College Calculus I as a dual credit course at Brandon Valley High School. He has also helped develop items for Smarter Balanced, the new statewide assessment in math and English language arts.

"This is a celebration of the outstanding teaching that goes on in classrooms across our state. All of these candidates go above and beyond every time they step into the classroom. I applaud Allen for his dedication to students, colleagues and his profession," said South Dakota Secretary of Education Melody Schopp.

A panel of educators from across the state selected Hogie from among six regional finalists. In addition to Hogie, other finalists included: Jennifer Larson, Sanborn Central School District; Ann Noyes, Pierre School District; Justin Speck, Rapid City Area School District; Lori Wagner, Webster Area School District; and Pam Wells, Mobridge-Pollock School District.

As recipient of the honor, Hogie receives \$8,000 in cash prizes, a \$6,700 technology package and the use of a vehicle during his year as 2015 South Dakota Teacher of the Year. Prize packages are made possible through the generosity of private businesses and organizations.

In addition, Hogie will represent South Dakota as a candidate for the National Teacher of the Year award. The National Teacher of the Year Program began in 1952 and continues as the oldest, most prestigious national honors program that focuses public attention on excellence in teaching. The 2015 National Teacher of the Year will be announced during a ceremony in Washington, D.C., in April 2015.



# Continue your education as a Coyote!

## University of South Dakota School of Education



### Undergraduate Teaching Majors

- K-8 Elementary Education
- 7-12 Biology, Chemistry, Earth Science, English, History, Mathematics, Physics, Political Science, Speech Communication, Theatre
- K-12 Art, French, German, Music, Physical Education, Spanish, Special Education\*

\*Double Major: The Special Education major must be paired with Elementary Education or a 7-12/K-12 teaching major.

### Undergraduate Non-Teaching Majors

Kinesiology and Sport Science  
(Exercise Science or Sport Management Specialization)

<http://admissions.usd.edu>

### Curriculum and Instruction

- M.A. Elementary Education, Technology, Secondary Education, Special Education
- Ed.S., Ed.D. Curriculum and Instruction

### Counseling and Psychology in Education

- M.A., Ed.S, Ph.D. Human Development and Educational Psychology
- M.A., Ed.S, Ph.D. Counseling
- Ed.S., Ph.D. School Psychology

### Educational Administration

- M.A., Ed.S., Ed.D. PK-12 Principal, Director of Curriculum, School District Superintendent
- Ed.S, Ed.D. Director of Special Education
- M.A., Ed.D. Adult and High Education

### Kinesiology and Sport Science

- M.A. Kinesiology and Sport Science  
(Exercise Science or Sport Management Specialization)

[www.usd.edu/grad](http://www.usd.edu/grad)



**“GOEHRING/VGKTZ LEADERSHIP SCHOLARSHIP”**

“The Goehring/Veitz Leadership Scholarship” has been established to encourage new teachers of math and science to become professionally involved on the state level. The scholarship, which is good for a free one or two day registration at the Joint Conference of the South Dakota Council of Teachers of Mathematics and the South Dakota Science Teachers Association, is available to any teacher who meets each of the following criteria:

- Is a K-12 teacher of math or science who is in the first year of teaching in SD
- Is a member of SDCTM and/or SDSTA Applicants must pay their own dues to the chosen organization.

The application process is simple. Fill out the form below, have it signed by the building principal, and mail it to Steve Caron along with the regular conference registration form which is available at [www.sdctm.org](http://www.sdctm.org).

-----

**APPLICATION**  
**“GOEHRING/VGKTZ LEADERSHIP SCHOLARSHIP”**

Name:

School District:

Teaching Assignment:

Membership Information:

\_\_\_\_\_ I am already a member of SDCTM SDSTA (Circle one or both)

\_\_\_\_\_ I am joining SDCTM and/or SDSTA (Circle one or both)

I am enclosing a check for

\_\_\_\_\_ \$5.00 for Elementary Math and/or \$5.00 for Elementary Science

\_\_\_\_\_ \$20.00 for MS/HS Math and/or \$20.00 for MS/HS Science

(Name) \_\_\_\_\_ is in his/her first year of teaching in SD at \_\_\_\_\_ School District during the \_\_\_\_\_ school year and is thus eligible for ‘The Goehring/Veitz Leadership Scholarship.’”

Signed: \_\_\_\_\_, Building Principal

# 2015 SDCTM/SDSTA JOINT CONFERENCE

Conference information and program booklets will be available online at [www.sdctm.org](http://www.sdctm.org) and [www.sdsta.org](http://www.sdsta.org)

## ADVANCE REGISTRATION

Crossroads Events Center, Huron South Dakota  
February 5-7, 2015 1-800-876-5858

*Please print clearly. Postmark by January 20, 2015. After this date, please register on-site.*

Name \_\_\_\_\_  
Permanent Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
School/District \_\_\_\_\_ E-mail \_\_\_\_\_  
Home phone \_\_\_\_\_ School Phone \_\_\_\_\_

*Please check the appropriate categories for membership, conference registration, and payment.*

### 1. SDCTM/SDSTA MEMBERSHIP(s) and DUES

*Please check the appropriate categories. You may join one, both, or neither organization.*

#### Begin/renew SDCTM (math) for one year

\_\_\_\_\_ Elementary \$5  
\_\_\_\_\_ Middle School \$20  
\_\_\_\_\_ High School \$20  
\_\_\_\_\_ Post-Secondary \$20  
\_\_\_\_\_ Student \$5  
\_\_\_\_\_ Retired \$5  
\_\_\_\_\_ Other \$20

#### Begin/renew SDSTA (science) for one year

\_\_\_\_\_ Elementary \$5  
\_\_\_\_\_ Middle School \$20  
\_\_\_\_\_ High School \$20  
\_\_\_\_\_ Post-Secondary \$20  
\_\_\_\_\_ Student \$5  
\_\_\_\_\_ Retired \$5  
\_\_\_\_\_ Other \$20

### 2. CONFERENCE REGISTRATION

*Please check the appropriate categories. Noon luncheon is included for each day that you register.*

**NOTE: The Friday night banquet is NOT included. Banquet tickets may be purchased for \$25 each.**

I will attend the conference on (check one): \_\_\_\_\_ Friday \_\_\_\_\_ Saturday \_\_\_\_\_ Both days

#### SDCTM or SDSTA Member

\_\_\_\_\_ One day \$50  
\_\_\_\_\_ Two days \$75

#### Non-Member

\_\_\_\_\_ One day \$100  
\_\_\_\_\_ Two days \$125

#### Student Member

\_\_\_\_\_ One day \$15  
\_\_\_\_\_ Two days \$25

**College credit will be available; information/registration will be available at the conference registration table.**

### 3. PAYMENT

*Make checks payable to SDCTM.  
Purchase orders will NOT be accepted.*

Membership(s) total \$ \_\_\_\_\_  
Registration \$ \_\_\_\_\_  
Friday Night Banquet (\$25 each) \$ \_\_\_\_\_

**TOTAL ENCLOSED \$ \_\_\_\_\_**

*Requests for refunds must be received by January 20, 2015*

### 4. SEND THIS FORM WITH PAYMENT

**Steve Caron**  
907 South 16<sup>th</sup> Street School phone (605) 725-8208  
Aberdeen, SD 57401 Home phone (605) 226-2292

Email: [steve.caron@k12.sd.us](mailto:steve.caron@k12.sd.us)

*Advance registration must be postmarked by January 20, 2015.  
After this date, please register on-site.*

Please check here if you have also submitted a speaker proposal form for the 2015 Conference.



Print a copy of this form. Mail with check payable to SDCTM to:

**Jay Berglund**  
**204 S. Exene Strert**  
**Gettysburg, SD**

Name \_\_\_\_\_

School Name \_\_\_\_\_

Subjects or Grades Taught \_\_\_\_\_

Addresses

Home \_\_\_\_\_  
\_\_\_\_\_

School \_\_\_\_\_  
\_\_\_\_\_

Mailing Address: \_\_\_\_\_ Home \_\_\_\_\_ School \_\_\_\_\_

Home Phone \_\_\_\_\_

School Phone \_\_\_\_\_

Fax Number \_\_\_\_\_

E-mail \_\_\_\_\_

Membership categories (Check only one)

- \_\_\_\_\_ Elementary School \$5.00
- \_\_\_\_\_ Middle School / Junior High \$20.00
- \_\_\_\_\_ High School \$20.00
- \_\_\_\_\_ Post Secondary \$20.00
- \_\_\_\_\_ Retired \$5.00
- \_\_\_\_\_ Student \$5.00
- \_\_\_\_\_ Other \$20.00

*We now offer the option to use PayPal to pay your dues for a minimal processing fee of \$1.00. The processing fee will cover the processing fees incurred by SDCTM and fees charged for having checks cut by PayPal.*

*Instructions can be found online at:*



SDCTM Newsletter  
C/o Sheila McQuade  
OGHS  
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## 2013-2015 SDCTM Executive Board Members

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[www.sdctm.org](http://www.sdctm.org)