



# WAHPE VOGLAI



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## SDCTM WINTER 2002 NEWSLETTER

### **EDITORIAL:**

#### **In Memory of SDCTM Treasurer Jim Goehring**

The South Dakota mathematics community, and in particular SDCTM, has suffered a great loss with the death of Jim Goehring, SDCTM treasurer, on January 11, 2002. Jim was diagnosed with cancer last fall.

He was first hospitalized on September 11 and was unable to return to the classroom. Although Jim was weak from the cancer and the treatments, he continued his duties as SDCTM treasurer. Included in this newsletter is his message, written in early January, regarding SDCTM membership renewals. His enthusiasm for professional involvement never wavered.

Jim Goehring was a mathematics educator in the Bon Homme School District for 32 years. During those 32 years, Jim imparted his love and enthusiasm for mathematics and his students. Students who were fortunate to have had the opportunity to learn mathematics from him attest to the legacy as a mathematics educator that he left.

The South Dakota Teachers of Mathematics awarded the 2002 SDCTM Friend of Mathematics Award to Dr. Andrew Karantinos. Dr. Karantinos taught mathematics at The University of South Dakota for 32 years and was chair of the department for two years. During his time at USD, Dr. Karantinos directed the USD Merten Hasse Mathematics Contest and was advisor to the mathematics club. His enthusiasm for mathematics and mathematics education was contagious. Always an advocate for mathematics, he encouraged his students to work to their fullest

As we know, Jim's influence reached beyond the Bon Homme School District. He has been on the SDCTM executive committee since 1986, when he was elected treasurer. He left the treasurer position to serve as SDCTM president during 1990-1992 (and during his term as president-elect and past president), and returned to the treasurers position in 1993. His willingness to assist in the activities of SDCTM was

greatly appreciated by the members of the executive committee over the years. Jim's dedication to mathematics education was recognized by SDCTM when he was named the 1995 SDCTM Friend of Mathematics Education.

To have had the opportunity to call Jim Goehring a colleague, mentor, and friend I consider a privilege. All who knew him would no doubt agree. We will miss Jim and his many contributions to the mathematics community.

#### **Andy Karantinos Receives the 2002 SDCTM Friend of Mathematics Award**

potential and actively recruited mathematics majors. He was a regular presenter at SDCTM conferences and regional and national NCTM conferences, and he served a term as secretary of SDCTM.

Upon his retirement from USD, Dr. Karantinos moved to Mesa, Arizona. Dr. Karantinos was unable to attend the conference as he was doing his civic duty serving on the grand jury in Arizona. Congratulations, brother Andy, and thank you for your dedication.

**SDCTM 2002 Distinguished Service**

### **Award Given Posthumously to Jim Goehring**

Last fall, Jim Goehring, SDCTM treasurer, was selected to be the recipient of the 2002 SDCTM Distinguished Service Award. His battle against cancer ended on January 11, and the award was given posthumously at the banquet of the SDCTM/SDSTA conference in Huron. During the banquet, a tribute to Jim was presented and Diana McCann, a Bon Homme colleague, accepted the award. Jim Goehring was a dedicated mathematics educator and served the mathematics community well. He was president of SDCTM (1990-1992) and treasurer since 1993. His contributions to the SDCTM executive committee are greatly appreciated by all who served with him. He was always "there" to do his duties as treasurer and to help the other officers. Even with the cancer consuming his energy, he continued with his duties as treasurer of SDCTM and insisted on taking care of all of the details himself. While he was a strong and sincere advocate of mathematics, he also was adept at seeing the lighter side of situations. His sense of humor will be remembered by all who knew him. Jim touched many lives and will be sorely missed by those he touched. If the award were given in person, we would say, as we presented the plaque, "Well done, good and faithful servant. We appreciate you and your efforts."

### **NSU 49th Annual Mathematics Contest**

The 49th Annual Northern State University Mathematics Contest is scheduled for Wednesday, April 17, 2002, on the campus of Northern State University. The contest

This is a great opportunity to receive a grant of \$7500 that now goes directly to the applicant to improve math education in the applicant's school, along with a wonderful trip for two to Washington, DC.

Don't put it off--fill out your application now!

consists of four divisions: (1) Elementary Algebra, (2) Geometry, (3) Advanced Algebra, and (4) Senior. In 2001, traveling trophies were awarded to Hamlin in Class A and Warner in Class B. For more information, contact Dr. William Haigh, Professor of Mathematics, Northern State University, Aberdeen, SD 57401 or phone (605) 626-2629 or e-mail haighw@northern.edu.

### **USD Mathematics Contest**

The 47th Annual Merten Hasse Mathematics Competition will be held on Saturday, April 27, 2002, on the campus of The University of South Dakota. This year there will be added a new category, Calculus. The Division IV exam, previously titled Senior Math, will now be titled Precalculus. The five different divisions will be Algebra I, Geometry, Algebra II, Precalculus and Calculus, in both the small and large school divisions. Sweat-shirts, certificates, and \$1200 in scholarships will be awarded. Registration deadline is April 10, 2002. Come and join the fun!

For registration material and/or further information, contact Dan Van Peursesem at (605) 677-5262 or e-mail dpeursesem@usd.edu.

### **Presidential Awards: Apply Now**

Presidential Award applications are due April 1, 2002. The applications can be downloaded from the NSF web site or you may obtain one by contacting Diana McCann, State Coordinator, 41876 Apple Tree Road, Springfield, SD 57062 or e-mail dm57062@valyou.net. You may nominate a fellow teacher or fill out the application yourself.

### **Members Check Your Address Labels**

If your membership label has a month and year that is either recently past or has past, this is your last newsletter. If you wish to continue to be a member, and I hope you do, please take a minute and fill out the form to ensure that you will stay a member. Of course, if you attended the conference in

Huron at the Crossroads, your membership was handled there. Keep in mind the savings in registrations if you are a member.

### **GIMPS finds 39th Mersenne Prime**

The Great Internet Mersenne Prime Search has once again had a success. On December 6, GIMPS announced that Michael Cameron, a 20-year old GIMPS volunteer, discovered the 39th (and largest to date) Mersenne prime. Cameron used his PC and software by George Woltman and Entropia, Inc. to conduct his part of the search. The new Mersenne prime is  $2^{13466917} - 1$ .

For more information on GIMPS and the newly discovered prime, visit <http://www.mersenne.org/13466917.htm> or <http://www.utm.edu/research/primes/notes/13466917/>. Richard Crandall has once again put together a poster containing the complete printout of the over four million digits in the new prime. Visit his Perfectly Scientific web site at <http://www.perfsci.com> for more information.

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### **More Geometry Haiku**

Cindy Kroon, Montrose High School

Students write haiku to review terms and definitions in geometry. Haiku is a form of Japanese poetry that has three lines. The lines have five, seven, and five syllables

### **NCTM Call for Papers**

NCTM is requesting manuscripts for articles about Teaching Entry-Level Courses. South Dakota teachers of mathematics certainly must have some valuable contributions for this issue. Let's have NCTM receive some manuscripts from South Dakota!

How do you modify your teaching methods when teaching such entry-level courses as prealgebra,

respectively. Poems are evaluated on mathematical accuracy, imaginative word choices, spelling, punctuation, presentation, and correct use of the haiku form. Winning poems included the following:

Quadrilateral:

A polygon with four sides.  
Possible a square.  
(SM)

Leg squared plus leg squared  
Equals hypotenuse squared.  
Pythagorean.  
(SM)

It's a triangle.  
The shape has three equal sides.  
Equilateral.  
(NH)

The two-column proof  
Shows a statement that is true.  
It convinces me.  
(LG)

A prism flattened,  
Showing all of its faces.  
It must be a net.  
(JK)

Equilateral  
Also equiangular;  
It is regular.  
(MB)

Project guidelines and examples of additional student haiku are posted on the Montrose Mathematics Homepage at <http://www.teachers.k12.sd.us/ck022/studentprojects/haiku.htm>.

algebra, or geometry? What strategies are successful for addressing the needs of students who struggle to understand the content? The *Mathematics Teacher* is interested in publishing articles about teaching mathematics at the basic levels and articles about teaching students with special needs. The Editorial Panel is looking for manuscripts that address, but are not limited to, the following:

- Examples of lessons that motivate beginning, hesitant, or uninterested students
- Ideas for making algebra and geometry accessible to all students
- Activities and projects that engage students in meaningful mathematics, for instance, issues that involve their communities
- Tips for managing diverse populations in first-year integrated mathematics courses
- Classroom ideas that lead students to take mathematics courses beyond the minimum required for graduation
- Uses of manipulatives, multimedia, and technology to make mathematics a hands-on, interactive, real-life experience for students
- Elementary topics that foreshadow later developments
- Innovative ways to teach seemingly simple concepts
- Interesting problems and student solutions using introductory ideas of algebra, geometry, probability, or statistics
- Your "best" lesson, that has evolved over time into a "fantastic" lesson, that has even the most recalcitrant students talking when they leave the classroom

Please send five double-spaced copies of the completed manuscript for review to the *Mathematics Teacher*, 1906 Association Drive, Reston, VA 20191-9988. Please state clearly that the manuscript is being submitted for the Teaching Entry-Level Courses call. No author identification should appear in the text of the manuscript. Guidelines for the preparation of manuscripts can be obtained from NCTM's Web site at [www.nctm.org/mt/mt-info.htm](http://www.nctm.org/mt/mt-info.htm).

Join students and teachers from around the world as they celebrate mathematics and mathematics teaching at this exciting yearly event. This year's theme "**Entertaining Mathematics**" encourages students to explore the mathematics of the entertainment industry and features mathematics investigations and problems related to their interests --Music, Film/Theatre, Print Media, and Television.

This is an opportunity to challenge students with activities that bring mathematics to life. Events feature a range of activities so that students of all ages can participate.

Don't let this event pass you by. Visit [www.nctm.org](http://www.nctm.org) for more information or to view previous years' activities.

Get ready for April 26th--  
Lights, Camera, Action...

**SDCTM Election**

The nominations committee has compiled the following slate of candidates for the SDCTM offices. To cast your ballot, send your ballot by March 15 to Jean Gomer, SDCTM President-Elect, either via E-mail (gomerj@deubrook.com) or U.S. mail (Box 96, White, SD 57276).

President-Elect  
Chuck Holmstrom

Vice President  
Steve Caron

Treasurer  
Diana McCann

Secretary  
Cindy Kroon  
Becky Umenthum

NCTM Representative  
Bill Grippentrog  
Craig Sherman

***SDCTM MEMBERSHIP REGISTRATION***  
***South Dakota Council of Teachers of Mathematics***

Name \_\_\_\_\_ Date

Mailing Address

\_\_City \_\_\_\_\_ State \_\_\_\_\_ Zip

School

Subject(s) Taught \_\_\_\_\_ Grade

Telephone (Home) \_\_\_\_\_ School

Please check your teaching level, and enclose a check for the appropriate dues. Check should be made payable to SDCTM.

_____	K-6	\$ 5.00
_____	7-12	10.00
_____	Departmentalized Middle School	10.00
_____	Post secondary	10.00
_____	Full-time student	3.00
_____	Retired	5.00

Send to: Diana McCann  
41876 Apple Tree Road  
Springfield, SD 57062

**CHECK OUT THE SDCTM WEB SITE AT  
[www.sdctm.org](http://www.sdctm.org)**

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Douglas High School, (605) 923-1464

V-President: Steve Caron (scaron@aberdeen.k12.sd.us)

Treasurer: Diana McCann (dm57062@valyou.net)

Bon Homme School District

Past President: Chuck Holmstrom (holmstromc@sf.k12.sd.us)

SF Roosevelt High School, (605) 362-2860

Pres.-Elect: Jean Gomer (gomerj@deubrook.com)

Deubrook High School, (605) 629-3201

Secretary:

NCTM Representative: Rocky VonEye (RoVonEye@dwu.edu)

Newsletter Editor: Curt Olson (colson@usd.edu)

USD Math Department, (605) 677-5262