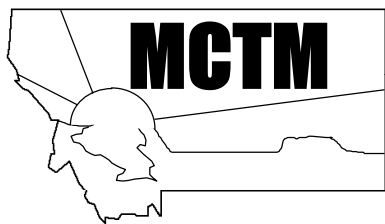


MONTANA MATHEMATICS

A Publication of the Montana Council
of Teachers
of Mathematics



September, 2003

Volume 38

Issue 1

President's Message

One marvelous aspect of being a teacher is starting fresh in the fall with renewed energy to continue with what worked in the past and to try new ideas gathered during the summer. I love the fall! As I look around, the campus is a buzz of people everywhere with eager faces wanting to be successful, to begin a new year. The intellectual conversations and/or debates about a concept brought up in a class make me smile. The energy level is intoxicating. The fall unlike the spring finds more people on campus. People of all ages ready to begin the challenges ahead with a feeling of YES, I can do this.

Interesting that as nature begins to change from a season of growth to a season of dormancy, teachers and students begin a season of growth. So does that mean teachers and students are dormant in the summer? Although being dormant is inviting at the end of a school year, I hope you chose to include some time for personal and professional growth.

This summer provided some great opportunities for professional growth such as the MCTM Academy and the eMSS-mentoring workshop that were very successful.

From the Academy there are several teachers ready to give workshops using the Big Sky STARS ñStudent/Teacher Assessment Resources.

MCTM showed growth this summer with many endeavors.

The Big Sky STARS resource and Professional Development Guide was developed from the Mathematics Performance Assessment Writing Project (MPAW) and fortunately a grant was submitted to continue this project throughout the school year.

We now have a wonderful website, <http://www.montanamath.org>, be sure to bookmark it and check it out daily. The website contains the most up-to-date events, membership form, math con-

test information, mission statement, history of MCTM as well as other features.

The planning for K-16 Montana Mathematics Network conference provided a renewal of TOTOM and a new document that lists the fundamental skills for every child at every grade level.

A SIMMS Board of Trustees was formed to oversee the management of the SIMMS materials. The board includes Maurice Burke, Tony Riehl, Peggy Lynn with Past-President Cliff Bara and Gary Bauer SIMMS dissemination director as ex-officio members.

One of the most exciting endeavors involves the collaboration with OPI, MSI, MSTA and MCTM to transition the Montana Science Institute (MSI) at Canyon Ferry into a center of excellence for math and science. An umbrella organization with a temporary name of the Montana Learning Center will eventually operate the site to coordinate and promote the success of all partners. MCTM will have a home base when this all comes together.

I hope your summer was a season of growth and that you blossomed as well as basked in the sunlight when it was available. Enjoy your new school year and all the eager faces wanting to be successful.

Jean Howard

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SIMMS Integrated Mathematics Dissemination Project

Welcome back to a new school year with certainly plenty of challenges and plenty of issues to tackle. My wish for all is a productive year where good things happen for students and teachers.

We have added some new sites in Pearl City, HI; Red Lake, MN; and Burlington Township, NJ so that is always exciting to see the work spread beyond Montana. After just one year with the curriculum, Kelly Walsh High School in Casper, WY has decided to phase out their other curriculum and make SIMMS IM the full curriculum for their students.

Kendall/Hunt Publishing continues to assist us with our web site (www.montana.edu/wwwsimms) and it gets better every month. Their own web site (www.simms-im.com) contains a wealth of helpful information as well. They are ramping up their marketing so SIMMS IM is more visible nationwide as evidenced by the ad in *The Mathematics Teacher* for September 2003 (page 448).

By the time readers actually see this article, I hope we have completed the negotiations with Kendall/Hunt for a Third Edition. As that develops, more information will appear in this publication to keep everyone informed.

If there is anything I can do to help in your adoption or implementation plans, please contact me at gbauer@montana.edu or 1-800-693-4060.

*Gary Bauer, Director
SIMMS IM Dissemination*

Deadline for November Newsletter is
November 10, 2003

e-mail articles to
terri_dahl@gfps.k12.mt.us

MCTM Board Meeting, June 23, 2003

The MCTM Board, along with several visitors, met in June at Montana State University for a full day meeting before the MPAW/PDA workshop convened. With 300 current paid members, MCTM is going to focus on recruiting and renewing memberships this fall. A tentative budget for the fiscal year 2003-2004 was proposed and suggestions were made for revisions. The intent is for MCTM to operate in the black without drawing on its investments. It was also reported that Johnny Lott donated \$800 of his SIMMS royalties to the Native American Scholarship - thanks Johnny!

FROM THE "JOURNALS" OF MCTM'S GLORIOUS PAST

Dear Lewis,

Discovered some math teachers who want me to join something called MCTM. They are quite persuasive and quite frankly more fun than the Corps. Go ahead without me.

Your friend,

Clark

The Montana Council of Teachers of Mathematics has a long history in Montana, just not quite as far back as 1805. In October 1965 Darlene Olson, James Stratton, Adrien Hess, William Stannard, and Donald Kamp attended a regional NCTM meeting in Colorado. NCTM presented a plan to finance an organizational meeting to form MCTM. Don Kamp and Adrien Hess applied and the grant of \$750 funded a meeting of 32 teachers on February 16, 1966. This Steering Committee elected Adrien as MCTM's first president. The first newsletter came out in March, with the next issues in September and October. NCTM co-sponsored MCTM's first conference on September 30 and October 1. Over 300 persons attended.

Information taken from History of the Montana Council of

Teachers of Mathematics 1966-1976 compiled by *Adrien Hess*.

NCTM Election Ballot Is Coming!

The ballot for the NCTM election will be coming to you soon. Please do not neglect to vote. Winners are often determined by few ballots. Exercise your right as a member.

Thanks from the NCTM Board of Directors

Johnny W. Lott

The NCTM Board of Directors visited Whitefish in the smoke of July. Thank you sincerely to Jean Howard, MCTM President and the MCTM Board for the gifts to the members of the Board. That was very nice, and I am charged to thank you publicly. It was an interesting visit for many who had not been to Montana before. Most enjoyed it, though smoke and fires in Glacier cancelled some of the social activities. Not to fear, the shoppers prevailed even in the smoke. And some found Bigfork and the restaurants and theater. Much work for the Council was accomplished. You'll be hearing about some it in the not-to-distant future.

In addition, Terri Dahl, *MCTM Newsletter Editor*, played hostess and taxi to the Editorial Panel for *Student Math Notes*. What an outstanding job she did-even with the fires. Again thanks from the NCTM Board for all the work done in this state for NCTM this year.

It now hardly seems possible that there are only eight more months in this term as President of NCTM. What a challenging 16 months it has been! And the next few months appear to be playing out the same way. In the coming months, NCTM will be beginning its new cycle of regional meetings: Edmonton, Salt Lake City and Charleston. Almost never have two regional meetings been so close to Montana. I hope to see many of you at both of them in this area. Not to mention the annual in Philadelphia! With a dance (reminiscent of MCTM meetings) after the banquet, kick off your boots and come to a sock hop. With an outstanding list of speakers planned, this is the time to visit the City of Brotherly Love, or Sylvester Stallone movies if you prefer.

The deadline for application for grants to travel to ICME in Denmark is **September 30**. See the NCTM website for details.

Proposed Changes to MCTM Bylaws and Policy Handbook

Any proposed changes to the MCTM Bylaws must be voted upon by the general membership. This will be done at the Annual Fall business meeting/luncheon to be held during the MEA/MFT Conferences in Billings on Thursday, Oct. 16. You can access a complete version of the MCTM Bylaws and Policy Handbook on the MCTM website.

Changes to the Bylaws:

Article III, Section 1: No member of the MCTM (add 'Board') may serve more than one elected term unless a time of five years has elapsed between terms.

Article IV: The election shall be conducted by mail with the ballots mailed to all paid-up members (add 'at least') five (5) weeks prior to the spring Board meeting of each year.

The MCTM Policy Handbook may be changed by a vote of the Board. Significant changes (other than clarifying language and grammatical corrections) made to Policy over the past fiscal year are as follows:

- 1.2.1: MCTM 's address for contact is the current MCTM appointed treasurer, Cliff Bara, 231 Sunrise Lane, Troy, MT, 59935.
- 2.1.3: Membership runs from Sept.1 - Aug. 31. Any payment made after March 1 goes through the following membership year.
- 2.2.1: Dues structure: include 10 years - \$100, Life time - \$150.
- 2.2.2: Complimentary memberships may be awarded at the discretion of the Board.
- 4.1.1 MCTM awards annual \$200 scholarships to the top female and top male student at each regional contest site. In addition, \$500 scholarships are awarded to the top male and top female student in the state. These \$500 awards are called the Joan Dolan Memorial Scholarship and the Adrien Hess Scholarship.
- 4.3.1: MCTM offers up to \$2000 in scholarship money to attend mathematics conferences.

Early Career Science and Mathematics Teachers

Online Mentoring Program

e-Mentoring for Student Success (eMSS)

We are currently recruiting early career (year 1-3) middle school and high school science and mathematics teachers to participate in an innovative online mentoring project. You will meet online and face-to-face with experienced math and science teachers, scientists and mathematicians eager to respond to questions from you and your students, and around 50 other early career teachers.

eMSS is a Partnership between Montana State University, the National Science Teachers Association, and the New Teacher Center @ UCSanta Cruz

Benefits of the e-mentoring program:

- A personal mentor whose current teaching assignment matches yours, and who is dedicated to you. You can reach your mentor easily on-line, by phone (we provide phone cards free of charge), and at two expense-paid workshops per year.
- Ideas, activities and assistance from your personal mentor and a network of other experienced teachers, and scientists and mathematicians who are on-line every day. Whether you need information about how to teach a specific math or science topic, classroom management, planning a district curriculum, or working with parents and the local community, we're there to assist you!
- Meeting other early career science & math teachers who face challenges similar to yours.
- Graduate credits or renewal units available upon request.
- A \$500 stipend.

What you are asked to do:

- Interact regularly with your mentor and other math or science teachers who are part of our on-line network. (We recommend logging on at least 3-4 times per week to ask a question, or read and respond to postings by other participants.)
- Attend a fall and spring 2-day workshop, schedule permitting. The workshops provide a great opportunity to share ideas with around 50 other beginning teachers and their mentors **Your travel, lodging, meals and other conference expenses will be paid for by the eMSS program.**
- Become an even more effective and dedicated science or mathematics teacher as you gain additional tools through the e-mentoring program.**

Please send completed applications by e-mail, regular mail or fax to:

Micki MacGregor, Science/Math Resource Center
401 Linfield Hall, Montana State University
Bozeman, MT 59717
e-mail: macgregor@montana.edu Fax: (406) 994-3733

For more information (or to obtain an application) phone: (406) 994-6768
or (800) 455-7837

e-MENTEE APPLICATION

e-MENTORING FOR STUDENT SUCCESS (eMSS)

2003-2004

Name: _____

District: _____

Position: _____

School: _____

Work Mailing Address: _____

Work Phone: _____

Fax: _____

e-mail (where we can reach you year-round): _____

Home Mailing Address: _____

Home Phone: _____

Social Security Number: _____

EDUCATION:

List your educational background. Please include your major areas of study; your current teaching credentials or areas of endorsement; and any graduate work, especially if science- or mathematics-related.

TEACHING EXPERIENCE: *(Start with most recent teaching position)*

SUBJECT	GRADE	From - To (Years)
---------	-------	-------------------

Name:

Page 2 of 2 - Mentee Application

ONLINE EXPERIENCE:

Please rate your experience:

	Low	—————	High	
Using e-mail	1	2	3	4
Participating in chat rooms	1	2	3	4
Taking online courses	1	2	3	4
Participating in threaded discussions	1	2	3	4

Please describe what you think critical areas of need will be for a beginning teacher.

Please describe what you hope to learn and/or gain from being a mentee in the eMSS program.

ASK BARNEY



1. Barney, I hear you like to work out and stay fit. I know I should drink lots of water, but should I eat before I run?

I adhere to a strict policy about eating while running. Runners and walkers should only eat when they come to a fork in the road.

2. Have you read any good books this summer?

Actually, I have. The book "The Essential 55" by Ron Clark is a good one for all teachers. Ron won the Disney Teacher of the Year in 2001. He came up with a list of rules to teach and live by for young and old. I found it very useful and interesting.

3. Are you going to the MCTM/MSTA dance at convention this year?

The dance was always a highlight for me. I was paired with Snuggles (a poodle) several years ago and won the dance contest. The bad news is that the dance was losing money for these two wonderful organizations. The dance was meant to be a time for teachers to get together and renew old friendships and have a good time. Unfortunately, it is at this time, a thing of the past. The good news is MCTM is sponsoring a two-hour luncheon at their noon meeting on Thursday at noon. Lunch, which will be catered, will consist of a sandwich and salad. The first 100 paid-up MCTM members will eat free. I am betting that you can renew (or join) at this meeting. I am going to be there and I hope that I will see all of you too. It is important that all MCTM members are informed about all of the great happenings in our organization. If time permits, there could be a Barney autograph session after the meeting.

4. I have been looking over my notes from teaching geometry last year and I am fuzzy on the concept of area and perimeter. When one increases, the other one has to also increase. Right?

Great question! I am the authority on fuzzy (heh, heh, fur-get it?). Actually, your premise is not always correct about the relationship. It would be good for you to explore some examples of having one of the two (area or perimeter) remain the same and see what can be done with the other. An idea is a string. It is always the same length, thus the same perimeter, but it can be formed into many shapes having many different areas. Do some experimenting and see if you can come up with some examples of your own to find if there really are relationships between area and perimeter.

5. What is an MPAW?

MPAW (Montana Professional Assessment Writers) is a project, originally started with a grant by Terry Sourhada, that MCTM has been working on the last three summers. With the advent of "No Child Left Behind", we know that we need to have quality math assessment for our students. During this project Montana teachers have developed some great assessment questions that align with the MT standards. The questions written the first summer have already been piloted with MT students. This last summer, under the direction of MCTM president Jean Howard, 1) the materials from the last two summers have been put into published form 2) a group of teachers have been trained to teach other teachers on the use of the materials and 3) schools across MT are being notified about the training available for their teachers about math assessment. The teachers participating in the workshops given by the MPAW trained teachers will be given a copy of the questions, solutions to the questions, student solutions for the questions, and a guide for scoring the questions. It is a great project with an exciting future for teachers across the state and also MCTM.

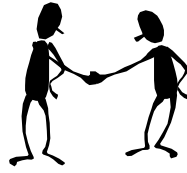
Membership Matters...

Hello from the windy plains of Chester! My school year has begun with a whirlwind of activities, and I bet your year is similar. I hope you can find a few minutes from your busy schedule to renew your MCTM membership...it is time well spent! Our organization is making a few changes so that we may better serve YOU, the members! Remember to stop on by the MCTM Hospitality Room in Billings...it is a great way to reconnect with your teaching family.

Deb Wickum

See you in Billings

Agenda – MSTA/MCTM Leadership Conference



January 9-10, 2004

Friday

7:30am	Registration/Breakfast	CC Lobby
8:00 am	Welcome	Gary Bauer
8:15 am	Topic Title?	Dr. Carol Commodore
10:15 am	Break	
10:30 am	MontCas update	Judy Snow
11:00 am	High Quality Teachers & Licensure	Margaret Bowles
11:30 am	ESEA update	Pat Johnson
12:00am	Lunch	
1:00	Breakout sessions	

<u>Madison</u> Angel Greenley Jenny Combs math assessment	<u>Spanish Peak</u> Bonnie Boggs Elem Science Assessment	<u>Beartooth</u> Kathy Tiefethlaer- Mike Agostinelli Analyzing & Presenting data	<u>Gravelly</u> FayeAnne Cummings Using technology for district assessments
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2:15 pm	MEA/MFT Convention Mentoring	Pam Koterba
3:15 pm	Break	
3:30 pm	Breakout sessions	

<u>Madison</u> Anne Blotkamp Elem Math Assessment Sharing	<u>Spanish Peak</u> Lisa Scott MS/HS Math Assessment Sharing	<u>Beartooth</u> Walt Woolbaugh Elem Science Assessment Sharing	<u>Gravelly</u> Todd Morstein MS/HS Science Assessment Sharing
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4:30 pm Keynote Speaker Dr. Carol Commodore
 5:30 pm Break Leadership Committee Mtg – Gravelly
 6:00 pm Social Hour
 7:00 pm Dinner

Saturday

7:15 am Breakfast Hotel Lobby
 8:00 am Overview of Break-outs Gary Bauer
 8:15 am Breakout Sessions

<u>Madison</u> Professional Develop. Academy Jean Howard Jenny Luebeck Lenne Yenne	<u>Spanish Peak</u> National Board Certification Margaret Bowles Alyson Mike	<u>Beartooth</u> Math Statistics-Science Research & Fairs Jane Frye Sharon Carroll	<u>Gravelly</u> VIMMS-mentoring program Elizabeth Swanson Sue Kocybatentative
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9:15 am	State of the State	Math Jean Howard Science Wayne Mangold
10:15 am	Break	
10:30 am	Open Forum	Color Coded Groups – Jim Hamling
11:45 am	Wrap Up/Prizes	
12:15	Presidential Award	Larry Kaber Information Presentation



January 9 - 10, 2004
Comfort Inn, Bozeman, Montana

Name: _____

Address: _____

_____ Zip: _____

Phone: (home) _____ Phone: (school) _____

Grade(s) – subject(s) that you currently teach: _____

School Address: _____

E-mail address: _____

The cost for this conference is \$125 for MCTM/MSTA members. Non-member registration is \$150 and will include a two-year membership in either MCTM or MSTA. The registration price includes meals. District Title II funds may be used to fund your attendance. For an accurate food count, please check if you will attend lunch and/or dinner on Friday.

_____ Lunch _____ Dinner

(Please indicate any food allergies or special needs.)

Please Check One:

- _____ My district will be paying by PO.
- _____ My district will be paying by check.
- _____ I am including a personal check.
- _____ Presenter, registration waived.

Registration Deadline is December 12, 2003

Registrations received after December 12th will be charged \$150/\$175

(Because of motel commitments, we, unfortunately, cannot refund any money for registration if we are not notified **within 72 hours** of the conference.)

Please return this application to:

**Angel Greenley
415 N. 30th #234
Billings, MT 59101**

Work: 247-3818 Fax: 247-3899 E-mail: greenleya@billings.k12.mt.us

TEACHER SCHOLARSHIPS

Teachers wishing to attend conferences may be eligible for some financial assistance from MCTM in the form of \$250 scholarships for out of state and \$100 for in state meetings. If interested please submit the following form.

Send application to

Mike Pierre

MCTM, Scholarship

3471 W Cascade St

Bozeman, MT 59718

Scholarship Deadline: Dec. 1, 2003

MONTANA COUNCIL OF TEACHERS OF MATHEMATICS

APPLICATION FOR TEACHER SCHOLARSHIP

Name: _____

Email Address: _____

Mailing Address: _____

City, State, Zip: _____ Phone: _____

School Name: _____

School Address: _____

City, State, Zip: _____

Grade level(s) Taught: _____ Subject(s) _____

When did you join MCTM _____

Have you been a recipient of this scholarship before? _____

If so, When? _____

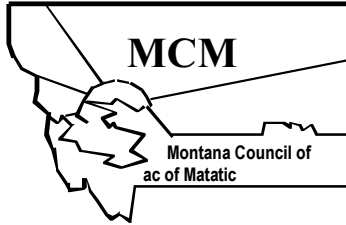
What conference or class are you planning to attend? _____

Location? _____ Date(s) _____

Why do you want to attend this conference or class?

What other conferences or classes have you attended in the last five years?

How will you share the information gained from this conference or class?



Win a Trip to Philadelphia, PA for the NCTM Convention!

MCTM Membership Drive

MCTM is hosting a membership drive. Every member that recruits a new member will be entered into a drawing for a trip to the NCTM Conference in Philadelphia, PA on April 21, 2004 through April 24, 2004. (See nctm.org for more details about the conference.) Any member who renews their membership will also be entered.

The winner will receive paid registration at the NCTM member rate of \$160, four nights at a hotel at \$120/night, an airline ticket estimated at \$500, and food expenses of \$25/day for four days.

Members copy a registration form for membership to MCTM and hand it out to your colleagues. New members need to write your name on the application as a referral and you will be entered into the drawing. The new member will also be entered.

The winner of the trip to Philadelphia will be drawn at the Leadership Conference in Bozeman on January 10, 2004. The contest deadline is January 2, 2004.

MCTM Membership Form

PLEASE FILL IN THIS INFORMATION AND MAIL WITH
CORRECT AMOUNT OF MONEY TO:

ANNUAL DUES PERIOD IS:
September 1 through August 31

Lisa Scott, 1102 Anchor St, Billings, MT 59105 scottl@billings.k12.mt.us

Name _____

Address change

Address _____

New membership

Renewal

Phone No. _____ e-mail _____

Contribution to MCTM Endowment (Scholarships & Professional Development Academy): \$5 \$10 \$25

- Regular \$15
- 2 years \$25
- Student \$8
- Retired (no charge)
- MCTM/MSTA \$26
- Institutional \$30
- 10 years \$100
- Life \$150

- College
- High School
- Middle School/Jr. High
- Elementary
- Other _____

Referred by MCTM member _____

MCTM NEWSLETTER
Great Falls Public Schools
CM Russell High School
228 17th Ave NW
Great Falls, Montana 59404

Non-Profit Organization

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Montana Mathematics is a newsletter published for all members of the Montana Council of teachers of Mathematics. The publication comes out 5 times/year and is free to all members of the MCTM. Any information pertaining to MCTM can be sent to Terri Dahl at CM Russell High School, 228 17th NW, Great Falls, Montana 59404. All entries will be reviewed.