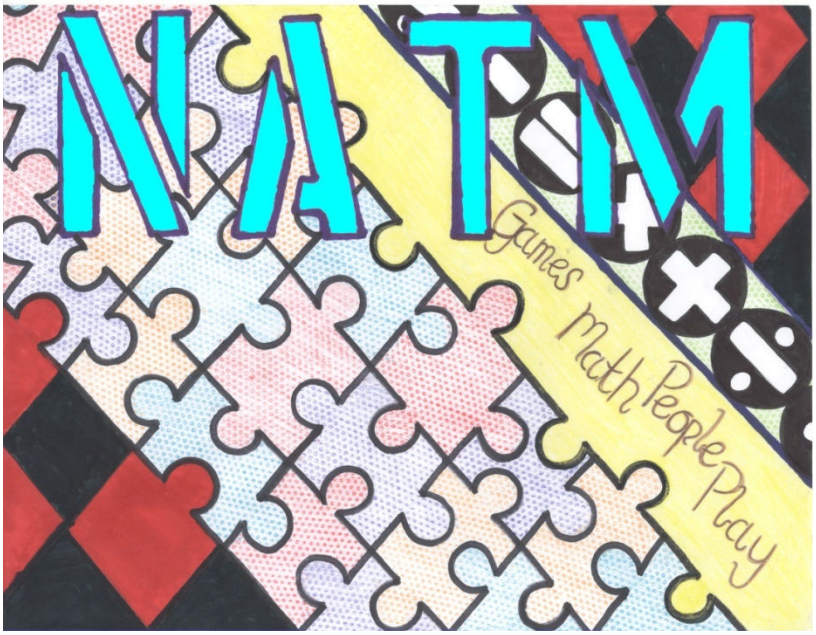
Nebraska Association of Teachers of Mathematics

Fall Conference



September 14, 2009

Registration 7:30 – 8:30 a.m.

Opening Session 8:30 – 9:20 a.m.

Luncheon Speaker

Angelo Casaburri, Aerospace Education Specialist for NASA

One Small Click for All Mankind…

This is a multimedia space adventure beyond books and blackboards that is based on NASA's Space Educators' Handbook DVD, 20th Anniversary Editions (1989 – 2009). This handbook has thousands of topics on Space Robotics, Challenger's Lost Lessons, Space Spin-offs, a Space Education Library with hundreds of teacher guides and exercises in .pdf files and Space Knowledge. At the end of the presentation, participants will be given a 4 GB Space Educator Treasure DVD. There is nothing else like it on the planet!

Time: 8:30am – 9:20am

Opening Meeting

NCTM News

1. Matthew R. Larson, from Lincoln Public Schools, is a candidate for an at-large position on the NCTM Board of Directors.
2. NCTM Rebate Info – Kristy Lukert (kristy.lukert@thayercentral.org)

Opportunities

1. Math Teacher's Circles - Pari Ford (fordpl@unk.edu)
   Math Teachers' Circles are an opportunity for middle level teachers and mathematicians to get together and work on some really interesting mathematics. The key component of these meetings is to have fun. We will engage in problem solving activities to increase confidence and provide classroom activities. Dinner is provided.

2. Project SHINE – Dan Davidchik (ddavidchik@cccneb.edu or 1-877-222-0780 ext 1408)
   Central Community College wants science, technology, engineering, and mathematics instructors to be aware of its recently awarded three-year National Science Foundation project. The goal of Project SHINE (Shaping High-quality Integrated Nebraska Education) is to bring secondary and college faculty into collaborative relationships with business and industry to develop classroom experiences based on real world examples.

   A key component of Project SHINE is the opportunity for 72 instructors to participate in a program focusing on professional development in applied science and mathematics skills, problem-based learning, and student recruitment. Each year, 24 instructors will participate in 19 days of activities, work with business mentors for at least one year, and develop learning and teaching resources as a result of their experiences.

Awards

1. Recognition of Board Members
2. Rookie of the Year Award
3. Don Miller Distinguished Service Award
4. Milton W. Beckmann Lifetime Achievement Award

Brainstorming Session

What do you need from NATM?

Time: 9:30am – 10:20am

Room B

Frog Pond Mathematics

Speakers: Betty Teter, Polly Amstutz and Pari Ford (all from UNK) **Grade Level: 5 – 7**

A two-hour activity based workshop, which covers a potpourri of activities on measurement, drawing, cutting, folding, fractions, statistics, geometry, etc. and also a game of frog golf. We will have a 2GB jump drive, preloaded with current workshop, plus some other things available for purchase for $10.

****NOTE – this session is limited to 35 participants and will be repeated at 1pm.

Room C

Make the Sky your Classroom – Wings, Strings and Flying Things

Speaker: Angelo Casaburri (NASA/Penn State) **Grade Level: K – 6**

Construct and fly a collapsible Rogallo wing kite (Sled kite) from a scale drawing using inexpensive, locally obtainable materials. Learn the basic principles of flight. Experiment with air, gravity, lift, thrust and drag. Conduct scientific experiments, construct aircraft models, and read selections and research topics about aviation. The Courage to Soar Educator Guide is downloadable from the NASA Portal: www.nasa.gov.

****NOTE – this session will be repeated at 10:30am.

Room D

Teaching STEM through Robotics

Speaker: Jim Schulte (CREATE Foundation) **Grade Level: K – 12**

I will explain the benefits of competitive robotics. How the competitions work, the season schedule, how to start a team, requirements, time commitments and benefits. How to integrate into core curriculum will be discussed as well as which aspects of science, technology, engineering and mathematics are taught through this activity.

****NOTE – this session will be repeated at 10:30am.

Ballroom II

Games We Play

Speaker: Dot Snesrud (Osceola Public Schools) **Grade Level: K – 4**

A smorgasbord of math games to play at the elementary level will be presented.

Loper North

Kinesthetic Activities for Algebra

Speaker: Lenny VerMaas (ESU #6) **Grade Level: 6 - 12**

We know that students learn in a variety of ways. Kinesthetic learning experiences will create improved understanding, retention and performance. Several activities related to number sense, number line and algebra will be demonstrated to engage students in learning.

Loper South

A Whole New World – Real Life Geometry

Speakers: Terri Jelinek and Cherrie Cummings (Schuyler Central High School) **Grade Level: 9– 12**

We will show many examples of projects our geometry students have created. Participants will have an opportunity to experience a project and will leave with materials ready for their students to use.

Cover Art

The image on the cover of the program was designed by Caleb Straehr. Caleb was a 6th grader in Karl Bergdolt's classroom at Trinity Lutheran School in Grand Island last year. Great job Caleb!

Look for our program design competition for next year's conference in the NATM newsletter.

Time: 10:30am – 11:20am

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Ballroom II

Wide World of…Mathletics?

Speakers: Kerrie Ericson (Axtell Community School) **Grade Level: 5 – 12**

Reviewing and practicing math concepts can be fun, engaging and competitive with a variety of easy math games that will be explained and demonstrated in this session.

Loper North

A Million Dots and Other Picture Books for Enhancing Mathematical Understanding

Speaker: Lenny VerMaas (ESU #6) **Grade Level: K - 6**

Learning to read and enjoy reading is the most important skill developed in the elementary. Enjoying mathematics is a close second. Number sense requires understanding the relationships between numbers. We will look at a wide variety of picture books that can be used to create a foundation for learning of mathematical concepts including large numbers and number sense.

Loper South

L to J Quizzes

Speaker: Steve Bahrij (St. Mary's High School) **Grade Level: 5 - 12**

Describing and demonstrating the non-graded activity called L to J.

Vendors

Cord Communications – Charley Vacha

CR Toys of Kearney – Connie Hoeft

Engaging Technologies – Matisha Stanton

Holt McDougal – Mason Schroth

Great Source, Rigby, Steck Vaughn – Pam Barrett

Texas Instruments – Tom Allen

Pearson/Scott Foresman/Prentice Hall – Todd Villota

Time: 1:00pm – 1:50pm

Room B

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Speakers: Betty Teter, Polly Amstutz and Pari Ford (all from UNK) **Grade Level: 5 – 7**

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****NOTE – this session is limited to 35 participants and will be repeated at 1pm.

Room C

Come Play Basic Fact Games!

Speakers: Marilyn Mudge (Wayne State College) **Grade Level: K – 4**

A variety of hands-on games that reinforce basic fact games will be played.

****NOTE – this session will be repeated at 2pm.

Room D

Problem Solving using Math Counts and SIGMA

Speakers: Tom J. Price (Norris Middle School) **Grade Level: 5 – 8**

Enjoy a variety of challenging math problems aimed at stimulating problem solving skills via MathCounts and SIGMA competitions. Middle school and high school competitions will also be highlighted.

Ballroom II

Give Me a Hint.

Speakers: Janette Payne (Kearney High School) **Grade Level: 9 – 12**

I will provide some ready-to-go games and hints on how to make the games go more smoothly. Resources will be available.

Loper North

Finding a Place for Data Analysis and Probability Concepts

Speaker: Lenny VerMaas (ESU #6) **Grade Level: 9 -12**

The revised Nebraska Mathematics Standards contain data analysis and probability concepts. While important, many existing curriculums in high school do not address this area. The challenge is to find a place and create connections within mathematics, to other content areas and to the students' world. Ideas, resources and activities will be shared to help make this occur.

Loper South

The New, Improved, Nebraska Math Standards for K - 8

Speaker: Deb Romanek (Nebraska Department of Education) **Grade Level: K - 8**

A question and answer session on our new math standards and assessment. This session will focus on the standards for K – 8.

NCTM Notes

Matthew R. Larson, from Lincoln Public Schools, is a candidate for an at-large position on the NCTM Board of Directors. The fourteen-person NCTM Board of Directors makes important decisions about Council actions, policies and programs. Those elected will serve three-year terms beginning at the conclusion of the NCTM 2010 Annual Meeting and Exposition in April. Individual NCTM members will receive election materials, including candidates' biographies and paper ballots, in the mail in late September. This year, ballots may be submitted by mail or online, but they must be received by November 2, 2009.

Time: 2:00pm – 2:50pm

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Frog Pond Mathematics
Speakers: Betty Teter, Polly Amstutz and Pari Ford **Grade Level: 5 – 7**
****NOTE – this session is a continuation of the 1:00 session.

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A variety of hands-on games that reinforce basic fact games will be played.
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Room D
Fantasy Sports in Math
Speakers: Karen Prewitt (Rock County Public Schools) **Grade Level: 5 – 12**
I will show how Dan Flockhart's Fantasy Sports books can be used to stimulate students to perform math calculations using real-world statistics.

Ballroom II
Interactive Mathematics
Speaker: Otis Pierce (Sutherland Public Schools) **Grade Level: K - 12**
Using the Smart Sento/Response system keeps kids engaged in learning, reviewing and testing. We will look at how the system works, can be used, and even try it out ourselves. This is a clicker that does much more than A/B/C/D and T/F.

Loper North
Last in Your Book but Not Last in Importance
Speaker: Lenny VerMaas (ESU #6) **Grade Level: 4 - 8**
Many times statistics and probability are found in the last chapter of the text book that may or may not be available to students. A curriculum that builds on skills developed at each grade level will create a system in which students are prepared for high school data analysis and probability concept standards. Ideas, resources and activities will be shared to help make this occur.

Loper South
The New, Improved, Nebraska Math Standards for 9 - 12
Speaker: Deb Romanek (Nebraska Department of Education) **Grade Level: 9 - 12**
A question and answer session on our new math standards and assessment. This session will focus on the standards for 9 - 12.

SAVE THE DATE!

The NATM Pre-Professional Conference will be held on October 24, 2009 at Nebraska Wesleyan. Please encourage your student teachers and others observing your classrooms to attend. Contact Jill Edgren (jedgren@esu10.org) for more information or to volunteer to present.

Next year's conference will be on Monday, September 20 at the Holiday Inn in Kearney. Check the newsletter and website for the theme, as well as forms for if you want to present.

NATM Fall Conference
September 14, 2009
Kearney, NE

My Take-Home IDEAS

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NATM Fall Conference Evaluation
September 14, 2009
Kearney, NE

Thanks for your participation today. We hope it was a valuable experience for you.

In order for us to deliver the best product, we would appreciate your evaluation of today's conference. Please return it to the box at the registration desk on your way out and pick up your parting gift. Thank you again for your attendance and helping us to make next year's conference even better.

Teaching Level: Elementary Middle High School College Student

Please rate the following.	Excellent	Very Good	Good	Fair	Poor
1. Conference Overall Quality	5	4	3	2	1

Comments:

2. Conference Location/Hotel	5	4	3	2	1

Comments:

3. Opening Meeting	5	4	3	2	1

Comments:

4. Session one title:	5	4	3	2	1

Comments:

5. Session two title:	5	4	3	2	1

Comments:

6. Lunch & Presentation	5	4	3	2	1

Comments:

7. Session three title:	5	4	3	2	1

Comments:

8. Session four title:	5	4	3	2	1

Comments:

9. Organization of conference	5	4	3	2	1

Comments:

General Comments/Suggestions

What do I <u>need</u> from NATM?

What do I <u>want</u> from NATM?