

Northeastern Oklahoma Mathematics and Science Teacher Association



**Fourth Annual Meeting
January 28, 2006
9:00 AM – 3:00 PM
Northeastern State University
Tahlequah, OK**

**Sponsored in part by the College of Science and Health Professions;
Northeastern State University; and NSU MASTEP, a National Science
Foundation Funded Program**

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We would like to thank our conference sponsors:

NSU MASTEP, an National Science Foundation Funded Program
Northeastern State University
NASA

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Association (NOMSTA)

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Conference Overview

8:30 - 9:00 am	Pick up Packets On-Site Registration	Reception area of NET Auditorium
9:00 - 9:15 am	-Welcome to NSU (<i>Dr. April Adams</i> , College of Science and Health Professions) -Introduction of Officers and Board Conference Information and NOMSTA Candidates (<i>Monica Shrum</i> , President) -Introduction of Keynote Speakers (<i>Dr.</i> <i>Pamela Christol</i> , College of Science and Health Professions)	NET Auditorium
9:15 - 10:00 am	Keynote: NASA's Vision to Inspire. Discover how NASA is inspiring the next generation of explorers in this live link-up. Highlights of the presentation include the Digital Learning Network and a variety of NASA Education resources available to educators.	NET Auditorium
10:15 - 11:05 am	Session I Workshops	2 nd and 3 rd Floors, UC
11:15 am - 12:05 pm	Session II Workshops	2 nd and 3 rd Floors, UC
12:15 - 1:00 pm	Lunch and NOMSTA Meeting in which officers and board members will be elected. Lunch is provided for pre- registered attendees and presenters at no additional charge.	Ballroom, 2 nd Floor, UC
1:10– 2:50 pm	Session III Workshop: NASA	Redbud Room, 3 rd Floor, UC
3:00 – 4:00 pm	NOMSTA Board Meeting	Birch (Morgan) Room, 3 rd Floor, UC

Session I Workshops **(10:15 - 11:05 am)**

Middle School Mathematics Room 224, 2nd Floor, UC

Escher-Type Tessellations: A Make-and-Take Workshop. *Dr. Martha Parrott, Kristen Tanner, Northeastern State University*. Participants will make Escher-type tessellations and will discuss how to integrate the art of tessellations with other content areas. Sample lesson plans and technology resources will be a focus as well.

Elementary School Science Room 222, 2nd Floor, UC

“Rock” Your World. *Kelly Emigh and Suze Kellye, Northeastern State University* students. Participants will participate in hands on, scientific investigations using inquiry methods to classify rocks. Correlated to the Oklahoma PASS Objectives.

Elementary and Middle School Mathematics Room 223, 2nd Floor, UC

Math as a Second Language. *Jan Yang, Pawhuska Jr. High*. Math has its own language. Learning math is like learning another language. This session will help K-8 math teachers to prepare students for algebra.

Elementary and Middle School Mathematics and Science Room 228, 2nd Floor, UC

The Classroom is for the Birds, *Dr. Amy Smith and Sophia Sweeney, Northeastern State University*. This hands-on workshop is designed to help you integrate birds into your classroom and across your curriculum. Guaranteed to be a hoot.

General Interest Math and Science Room 229, 2nd Floor, UC

Origami, Kirigami – Shish Boom Bah. *Dr. Dawn Yonally and Dr. Debbie Landry, Northeastern State University*. Participants will explore the art of origami and Kirigami. Origami is the Japanese art of folding paper in geometric shapes to form animals and other items. Kirigami is the Japanese art of folding and cutting paper.

Middle School Science Ballroom Lounge, 2nd Floor, UC

What’s With the Water? *Teresa Kincannon Tulsa Public Schools and Mary Beth Flusche, Muskogee Public Schools*. Participants will explore the properties of water through inquiry based activities.

Elementary and Middle School Science Dogwood, 3rd, Floor, UC

A CO₂ Day. *Georgia Smith, Bristow Public Schools*. Discover the properties of carbon dioxide through hands on investigations. Teacher instructions and student worksheets included.

General Interest Science and Math Birch (Morgan) Room, Third Floor, UC

Expanding the Classroom- To Infinity and Beyond. *Rick Shelton, NSU Center for Teaching and Learning*. This workshop will address the use of technology as an instructional tool for educators through the exploration of websites, podcasts, and online video.

Session II Workshops **(11:15 am - 12:05 pm)**

Middle School Mathematics Ballroom Lounge, 2nd Floor, UC

Exploring Proportional Thinking. *Dr. J. Wendell Wyatt, Northeastern State University.* Curricular topics and related problems conducive to proportional thinking will be discussed and modeled with manipulatives.

Elementary School Science Room 222, 2nd Floor, UC

Exploring New Horizons. *Kelly Wardlaw, Oklahoma State University.* Participants will experience the exciting NASA New Horizons Mission to Pluto/Charon. Information and educational products will be presented.

Elementary and Middle School Science Dogwood, 3rd Floor, UC

Using Discrepant Events and Graphic Organizers to Enhance Science Learning. *Dr. Stephan Sargent and Dr. Pamela Christol, Northeastern State University.* This hands on session integrates science with a variety of text sources, such as children's literature, trade books, the Internet and Weekly Readers.

General Interest Science Room 228, 2nd Floor, UC

NASA: Earth Missions. *Debbie Evans, NASA/JPL Solar System Ambassador.* Participants will engage in hands on activities and discover information concerning NASA's missions designed to study the Earth. Many handouts and teaching ideas.

General Interest Mathematics and Science Room 223, 2nd Floor, UC

Hands on Math and Science with Ag in the Classroom. *Mary Ann Kelsey, Ag in the Classroom.* Experience hands on lessons that incorporate the Oklahoma PASS Objectives. Ag in the Classroom (AITC) lessons are refreshing, relevant, reliable and involve all learners. Participants will receive classroom resources.

Middle School and High School Math and Science Room 224, 2nd Floor, UC

Metrics Made Easy. *Angie Shoemate and Sherri Stuckey, Skiatook Middle School.* All scientists use metrics to measure and document data. The SI, International System of Measurement, is used worldwide by all scientists to measure and collect data. It is important that students are able to use and understand the metric system, so we've made it easy! It's easy to teach and easy for all students to understand.

General Interest Science Birch (Morgan) Room, Third Floor, UC

Let Worms Recycle Our Garbage. *Kay Frank, Solid Waste Institute of NE Oklahoma.* Participants will learn how a classroom of students can set up and maintain a mini-ecosystem in which newspapers and organic garbage are recycled into rich compost. Demonstration, with optional hands on involvement.

General Science Room 229, 2nd Floor, UC

Space Flight. *Judy Moody, Tulsa Air and Space Museum*. Explore the Earth's atmosphere with hands-on activities available at the museum. Participants will create paper airplanes, test their knowledge about aircraft, and create stomp rockets.

**Lunch and NOMSTA Meeting, UC Ballroom
(12:15 - 1:00 pm)**

Lunch requires a ticket. All presenters and pre-registered participants should have received a ticket. All tickets that have not been picked up by lunch time will be distributed to participants who registered on-site on a first come first served basis at 12:15 pm in front of the UC Ballroom. **There will be a NOMSTA Meeting immediately after lunch in the Ballroom. All attendees are invited to join and participate in the meeting. At this meeting, we will elect officers and board members.**

**Session III Workshops
(1:10 - 2:50pm)
NASA Earth Science**

**Elementary, Middle School and High School Math and Science
Redbud Room, 3rd Floor UC**

Mission Geography - Exploring Earth from Space. *Angelo Casaburri and Lisa Ogle, Aerospace Education Specialists from NASA's Aerospace Education Services Program*. In this hands-on session, participants will learn about NASA's Mission Geography. Mission Geography is about using geography and NASA's photographs and images of our planet from the unique perspective of Earth orbit. The three publications, Mission Geography K-4, Mission Geography 5-8, and Mission Geography 9-12, contain curriculum support materials focused on the development of key grade-level-appropriate geography skills, including remote sensing and map/image interpretation. Mission Geography CD-ROM included. Mission Geography is now available in two formats: for download from the Mission Geography Homepage website at: <http://missiongeography.org/> or from a CD-ROM.

Spread the word about NOMSTA!

Membership forms are on the NOMSTA web site:

<http://arapaho.nsuok.edu/~NOMSTA>