



Northeastern Oklahoma Mathematics and Science Teacher Association Established!

NOMSTA has now been established! This professional organization for K-16 mathematics and science teachers was created in order

- To encourage active interest in all areas of mathematics education and science education
- To enhance the teaching and learning of mathematics and science,
- To promote the research in the teaching and learning of mathematics and science, and
- To provide opportunities for the exchange of views regarding the teaching and learning of mathematics and science.

In short, we have formed an organization that will support K-16 mathematics and science education.

NOMSTA really began in the spring of 2002 when the National Science Foundation awarded the Mathematics and Science Teacher Enhancement Project (MASTEP)

grant to NSU. (For more information see Page 6.) One of the goals of the MASTEP is to promote and sustain mathematics and science education in Northeastern Oklahoma. NOMSTA is partially funded through MASTEP and NSU for the next three years for this purpose. The leaders of NOMSTA represent elementary, middle school, high school, and university mathematics and science teachers. (See Page 2.) Over the next three years, we are hoping to see the organization grow so that it will continue long after the funding for the grant has ended.

That is where you come in. We need your help. Come to the annual meeting on February 8, 2003. Volunteer to help make this organization successful. Invite others to join. We can accomplish so much together! We invite all who are interested in improving Mathematics and Science Education to join this organization, free of charge. So spread the word to those you know. The Membership Form is on page 5.

First Annual NOMSTA Meeting to be Held in February

The first annual meeting of the Northeastern Oklahoma Mathematics and Science Teacher Association will be held February 8, 2003 from 9:00 am—3:00 pm on the Tahlequah campus of Northeastern State University.

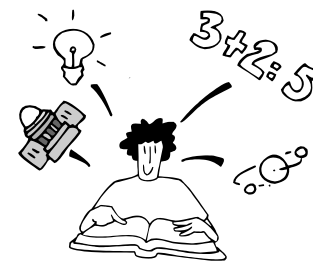
There will be math and science workshops for Pre-K through 12th grade teachers. These workshops will focus on practical issues such as demonstrations and activities that you can use in your classroom, implementing the new PASS modifications, and preparing for PASS math and science tests.

Registration is \$10 if you pre-register by January 15th and includes lunch. On-site registration is \$15 and does not include lunch. Pre-registration forms are on Page 4.



Inside this issue:

<i>NOMSTA Established!</i>	1
<i>First Annual Meeting February 8, 2003</i>	1-2
<i>NOMSTA Leadership</i>	2
<i>Teachers Awarded Supply Grants</i>	3
<i>Teachers Awarded Conference Stipends</i>	3
<i>Pre-registration form for NOMSTA Meeting</i>	4
<i>NOMSTA Membership Form</i>	5
<i>NSU MASTEP Summer 2003</i>	6



The NOMSTA Newsletter and Annual Meeting are partially funded by the National Science Foundation and Northeastern State University.

NOMSTA Meeting cont.

NOMSTA Meeting Agenda (Tentative)

8:30-9:00 am	Late Registration and Welcome
9:00-9:45 am	Plenary Session
10:00-10:50 am	Workshops I
11:05-11:55 am	Workshops II
12:10-1:45 pm	Lunch and Membership Meeting
2:00-2:50 pm	Workshops III

There will be ample time to interact with other mathematics and science teachers in the area. The workshops are designed to be hands-on, interactive and useful. We have made every attempt to have something for everyone at each workshop session.

Some of the presenters include: Mary Hynes, Edmund; Mary Coley, Broken Arrow; Lexy Taylor, Tahlequah Middle Jr. H.; Susan Oliver, Owasso; Melissa Parnell and Ann West, Tahlequah Sr. High; Patrica Laughlin, Catoosa M. S.; Shelley Gantt, Norman; Linda Kerr, Yukon; Kelly Williams, Colcord; Shiranjini Jeyarajah, Boulevard Christian School; Wendell Wyatt, Deborah Carment, Gayle Farmer, Joan E. Bell, Calvin Cole, Denise DaRos-Voseles, and April Adams, NSU.

There will be a buffet lunch at no additional charge for those who pre-register. The Membership Meeting will be during lunch. This will be your opportunity to help decide the direction of the organization. Come with plenty of ideas. We need you.

NOMSTA Leadership Established

The NOMSTA Leadership was established during the NSU MASTEP, Summer 2002 Program. Many volunteers came forward to donate their time and energy to the leadership of the new organization. Come meet your leaders at the NOMSTA Meeting.

NOMSTA OFFICERS

*PRESIDENT: Timmie Spangler	DEPEW MIDDLE SCHOOL
*PRESIDENT-ELECT: Lance Phillips	OSU OKMULGEE VO-TECK
*MEMBERSHIP SECRETARY: Stacy Ezell	E.W. BEAVERS MIDDLE SCHOOL
NEWSLETTER EDITOR: Rebekah Ham	TAHLEQUAH JUNIOR HIGH SCHOOL
WEBMASTER: April Adams	NORTHEASTERN STATE UNIVERSITY

MATHEMATICS DIVISION

WORKSHOP CHAIR: Lexy Taylor	TAHLEQUAH JUNIOR HIGH SCHOOL
*ELEMENTARY: Shelley Gantt	JEFFERSON MIDDLE SCHOOL
*MIDDLE SCHOOL: Sharon Gleese	WARNER MIDDLE SCHOOL
*HIGH SCHOOL: Shiranjini Jeyarajah-Stotts	BOULEVARD CHRISTIAN SCHOOL
*COLLEGE/UNIVERSITY: Steven Wilkinson	NORTHEASTERN STATE UNIVERSITY

SCIENCE DIVISION

WORKSHOP CHAIR: Patricia Laughlin	CATOOSA MIDDLE SCHOOL
*ELEMENTARY: Kathy Coleman	ROLAND UPPER ELEMENTARY
*MIDDLE SCHOOL: Renae Shoate	DEWEY MIDDLE SCHOOL
*HIGH SCHOOL: Cherinell Riley	STILWELL HIGH SCHOOL
*COLLEGE/UNIVERSITY: Monica Macklin	NORTHEASTERN STATE UNIVERSITY

*INDICATES BOARD MEMBERS

NSU MASTEP Teachers Awarded Supply Grants

In August 2002, the following NSU MASTEP participants were awarded Supply Grants of up to \$500:

Doris Apala	PRETTY WATER SCHOOL
Jason K. Burgess	TAHLEQUAH JUNIOR HIGH SCHOOL
Kathy Coleman	ROLAND UPPER ELEMENTARY
Julie Collins	CHILDERS MIDDLE SCHOOL
Sherry Collins	COLLINSVILLE MIDDLE SCHOOL
Marjean Dowling	TAHLEQUAH HIGH SCHOOL
Phares Engle	TAHLEQUAH ACADEMY OF SUCCESS
Stacy Engle	E.W. BEAVERS MIDDLE SCHOOL
John Paul Harvell	MULDROW MIDDLE SCHOOL
Vicky Hurst	BEGGS MIDDLE SCHOOL
Karl Hutchinson	LOCUST GROVE MIDDLE SCHOOL
Jim Keene	WESTVILLE PUBLIC SCHOOLS
Jeff Lawrence	LOWREY SCHOOL
Linda Morgan	LIBERTY ELEMENTARY
Cherinell Riley	STILWELL HIGH SCHOOL
Jamie Sharp	MULDROW MIDDLE SCHOOL
Timmie Spangler	DEPEW MIDDLE SCHOOL

At the NOMSTA Meeting in February, each of these awardees will be presenting how they used their grants to improve mathematics or science instruction. Come see their results.

NSU MASTEP Teachers Awarded Conference Stipends

In August 2002, the following NSU MASTEP participants were awarded Conference Stipends of up to \$500.

Linda Morgan	LIBERTY ELEMENTARY GREEN COUNTRY SCIENCE TEACHER WORKSHOP, BARTLESVILLE, OK
Phares Engle	TAHLEQUAH ACADEMY OF SUCCESS NCTM ANNUAL MEETING' SAN ANTONIO, TX
Marjean Dowling	TAHLEQUAH HIGH SCHOOL NCTM ANNUAL MEETING, SAN ANTONIO, TX
Timmie Spangler	DEPEW MIDDLE SCHOOL OSTA, OKLAHOMA CITY, OK
Timmie Spangler	DEPEW MIDDLE SCHOOL LEARNING FROM THE FOSSIL RECORD, NORMAN, OK
Cherniell Riley	STILWELL HIGH SCHOOL MARINE EDUCATION WORKSHOP, BIG PINE KEY, FL
Jeff Lawrence	LOWREY SCHOOL SEAWORLD TEACHER CAMP, ORLANDO, FL
Vicky Hurst	BEGGS SCHOOL NSTA NATIONAL CONVENTION, PHILADELPHIA, PA
Shiranjini Jeyarajah-Stotts	BOULEVARD CHRISTIAN SCHOOL ALGEBRA FOR ALL, TULSA, OK
Karl Hutchison	LOCUST GROVE MIDDLE SCHOOL SEAWORLD TEACHER CAMP, ORLANDO, FL
John Paul Harvell	MULDROW MIDDLE SCHOOL NCTM, SAN DIEGO, CA
Jamie Sharp	MULDROW MIDDLE SCHOOL TEACHER WORKSHOP NORTHWEST MARINE ECOSYSTEMS, BELLINGHAM, OR

At the NOMSTA Meeting in February, each of these awardees will be presenting information about the conference that they attended or will attend. Come hear about a professional development opportunity that you might want to attend.

Pre-Registration Form
**Annual Conference of the
Northeastern Oklahoma Mathematics and Science Teacher (NOMSTA)**
<http://arapaho.nsuok.edu/~NOMSTA>

February 8, 2003, 9:00 am - 3:00 pm
Northeastern State University, Tahlequah Campus
Deadline for Pre-Registration is January 15, 2003

On site registration is from 8:00 am -9:00 am

Sponsored by the

NSU Mathematics and Science Teacher Enhancement Project
(NSU MASTEP) <http://arapaho.nsuok.edu/~adams001/MASTEP2002.htm>

A National Science Foundation funded project

Name _____

Address _____ Phone: _____

City, State: _____ Zip _____ E-mail _____

Please check all that apply.

- | | |
|---|--|
| <input type="checkbox"/> Elementary Teacher | <input type="checkbox"/> Administrator |
| <input type="checkbox"/> M.S./ Jr. High Teacher | <input type="checkbox"/> Undergraduate |
| <input type="checkbox"/> Sr. High Teacher | <input type="checkbox"/> Curriculum Specialist |
| <input type="checkbox"/> College/University Faculty | <input type="checkbox"/> Other _____ |

Subject Area

Mathematics

Science

- | | |
|--|--|
| <input type="checkbox"/> Elementary General | <input type="checkbox"/> Elementary School Science |
| <input type="checkbox"/> Elementary School Mathematics | <input type="checkbox"/> Integrated Science |
| <input type="checkbox"/> 6 th Grade Mathematics | <input type="checkbox"/> Biology, Life Science |
| <input type="checkbox"/> 7 th grade Mathematics | <input type="checkbox"/> Earth Science/Space |
| <input type="checkbox"/> 8 th Grade Mathematics | <input type="checkbox"/> Physical Science |
| <input type="checkbox"/> Algebra I/II | <input type="checkbox"/> Chemistry |
| <input type="checkbox"/> Geometry | <input type="checkbox"/> Physics |
| <input type="checkbox"/> Trigonometry | <input type="checkbox"/> Environmental Science |
| <input type="checkbox"/> Analytical Geometry | <input type="checkbox"/> Astronomy |
| <input type="checkbox"/> Pre-Calculus | <input type="checkbox"/> Science Education |
| <input type="checkbox"/> Calculus | |
| <input type="checkbox"/> Mathematics Education | |

Pre-Registration fee is \$10 if sent by January 15, 2003 and includes lunch.
Registration at the door is \$15 and does not include lunch.

Send this completed form and \$10 by January 15, 2003 to
Stacy Ezell, NOMSTA
Membership Secretary
Rt. 2, Box 105-I
Haskell, OK 74436

**Northeastern Oklahoma
Mathematics and Science Teacher Association
NOMSTA
<http://arapaho.nsuok.edu/~NOMSTA>
Membership Form**

Yes I want to join NOMSTA!

Name _____

Address _____ **Phone:** _____

City, State: _____ **Zip** _____ **E-mail** _____

Please check all that apply.

- | | |
|---|--|
| <input type="checkbox"/> Elementary Teacher | <input type="checkbox"/> Administrator |
| <input type="checkbox"/> M.S./ Jr. High Teacher | <input type="checkbox"/> Undergraduate |
| <input type="checkbox"/> Sr. High Teacher | <input type="checkbox"/> Curriculum Specialist |
| <input type="checkbox"/> College/University Faculty | <input type="checkbox"/> Other _____ |

Subject Area

Mathematics

Science

- | | |
|--|--|
| <input type="checkbox"/> Elementary General | <input type="checkbox"/> Elementary School Science |
| <input type="checkbox"/> Elementary School Mathematics | <input type="checkbox"/> Integrated Science |
| <input type="checkbox"/> 6 th Grade Mathematics | <input type="checkbox"/> Biology, Life Science |
| <input type="checkbox"/> 7 th grade Mathematics | <input type="checkbox"/> Earth Science/Space |
| <input type="checkbox"/> 8 th Grade Mathematics | <input type="checkbox"/> Physical Science |
| <input type="checkbox"/> Algebra I | <input type="checkbox"/> Chemistry |
| <input type="checkbox"/> Geometry | <input type="checkbox"/> Physics |
| <input type="checkbox"/> Algebra II | <input type="checkbox"/> Environmental Science |
| <input type="checkbox"/> Trigonometry | <input type="checkbox"/> Astronomy |
| <input type="checkbox"/> Analytical Geometry | <input type="checkbox"/> Science Education |
| <input type="checkbox"/> Pre-Calculus | |
| <input type="checkbox"/> Calculus | |
| <input type="checkbox"/> Mathematics Education | |

Annual Membership is FREE! Simply return form to:

Stacy Ezell, NOMSTA
Membership Secretary
Rt. 2, Box 105-I
Haskell, OK 74436

Membership Benefits include: NOMSTA Quarterly Newsletter and an Invitation to the NOMSTA Annual Meeting on **February 8, 2003** at Northeastern State University, Tahlequah. (Registration fee for the Annual Meeting is \$10.00 and includes lunch.)

**Mathematics and Science Teacher Enhancement Project
(MASTEP)
Northeastern State University
A National Science Foundation (NSF) funded program
More information and an application form:
<http://arapaho.nsuok.edu/~adams001/MASTEP2002.htm>**

Application Deadline is February 26, 2003

Northeastern State University has been awarded an NSF Grant to improve the qualifications of Middle School Mathematics and Middle School Science Teachers in Northeastern Oklahoma. The goals of the project are to

- Enable middle level math and science teachers to master the subject matter competencies they need to teach their subject matter at the middle school level using reform-based methods.
- Increase the ability of middle school teachers to teach math and science using reform based methods.
- Form a community of math and science educators in Northeastern Oklahoma that will promote and sustain reform based math and science education on a long-term basis.

Eligibility Requirements:

- Be a teacher of mathematics or science at the middle school level (typically grades 6, 7, or 8, although these grade levels may vary in some schools);
- Demonstrate a need for additional content knowledge in mathematics or science.
- Agree to continue participation during the following school year by implementing the curriculum modifications developed during the summer and submitting a final report.

Each participant will receive

- A stipend. The amount depends on the level of participation; a maximum of \$1200 for mathematics participants or \$1500 for science participants. Note mathematics participants attend MTWTH 9:00 am - 4:00 pm, and science participants attend MTWTHF 9:00 am -4:00 pm.
- Six hours of graduate credit in mathematics or in science. (Tuition will be free to participants.)

June 9 - July 3, 2003 Mathematics Track	MATH 5533 Teacher Seminar in Math: Algebra Concepts and MATH 5533 Teacher Seminar in Math: Technology in Mathematics
June 6 - July 3, 2003 Science Track	SCI 5113 Special Topics in Science: Investigative Biology and SCI 5113 Special Topics in Science: Physical Science I
July 7 - July 31, 2003 Mathematics Track	MATH 5533 Teacher Seminar in Math: Data Analysis and MATH 5533 Teacher Seminar in Math: Geometry
July 7 - Aug. 1, 2003 Science Track	SCI 5113 Special Topics in Science: Earth Science and SCI 5413 Astronomy for Teachers

- The opportunity to apply for MASTEP Supply Grants (up to \$500) to purchase supplies to implement course modifications.
- The opportunity to apply for MASTEP Conference Stipends (up to \$500) to attend professional meetings.
- Free registration for the Spring 2004 meeting of the Northeastern Oklahoma Mathematics and Science Teacher Association (NOMSTA) at NSU, Tahlequah.

*For more information, please contact
Dr. April Adams, Project Director, 918-456-5511, Ext. 3819*

Upcoming Events

January 15, 2003	Pre-registration deadline for NOMSTA Meeting
January 23-25, 2003	NCTM Regional Conference, Indianapolis, Indiana
January 29-February 2, 2003	AETS Meeting, St. Louis, MO
February 8, 2003	NOMSTA Meeting, NSU Tahlequah 9:00 am—3:00 pm
February 26, 2003	Deadline for NSU MASTEP Summer 2003 Applications
February 28-March 2, 2003	Southwest Section of AETS Meeting, Dallas, TX
March 15-23, 2003	Spring Break!
March 23-26	NARST Meeting, Philadelphia, PA
March 26-30	NSTA Meeting, Philadelphia, PA
May 10, 2003	NCTM Annual Meeting, San Antonio, Texas
June 6-July 3, 2003	NSU MASTEP June Science Session
June 9-July 3, 2003	NSU MASTEP June Mathematics Session
July 7-August 1,	NSU MASTEP July Science Session
July 7-31, 2003	NSU MASTEP July Mathematics Session
Fall 2003	OSTA Meeting
October 2-4, 2003	NCTM Regional Conference, Salt Lake City, Utah
October 30-Nov. 1, 2003	NSTA Northern Area Convention, Minneapolis, MN
November 6-8, 2003	NCTM Regional Conference, Charleston, South Carolina
November 13-15, 2003	NSTA Midwestern Area Convention, Kansas City, MO
November 20-22, 2003	NCTM Regional Conference, Edmonton, Alberta
December 4-6, 2003	NSTA Western Area Convention, Reno, NV

Interesting Web Sites

Eisenhower National Clearinghouse	http://www.enc.org/
National Council on Teachers of Mathematics	http://www.nctm.org
National Science Education Standards	http://books.nap.edu/books/0309053269/html/index.html
National Science Teacher Association	http://www.nsta.org
NOMSTA	http://arapaho.nsuok.edu/~NOMSTA
MASTEP	http://arapaho.nsuok.edu/~adams001/MASTEP2002.htm
Oklahoma Science Teacher Association	http://www.angelfire.com/ok3/osta

NSU Access Center for SCIMAST and ENC Materials

The Access Center houses K-12 science and math curriculum materials and other resources provided by SCIMAST and ENC. Teachers and administrators from area K-12 schools are invited to either view materials at the Access Center or check out materials from the center for use in their schools. The Access Center is located on the NSU Tahlequah campus, Science Building, Room 125.

Kits (which include materials necessary for teaching the curriculum) that are available in the Access Center:

- Grades 1 & 2: Air and Weather (FOSS Kit)
- Grade 3: Chemical Tests (STC Kit)
- Grade 3: Plant Growth (STC Kit)
- Grades 3 & 4: Water Module (FOSS Kit)
- Grades 3 & 4: Ideas and Inventions (FOSS Guide only)
- Grade 4: Electric Circuits (STC Kit)
- Grade 5: Floating and Sinking (STC Kit)
- Grade 6: Magnets and Motors (STC Kit)

For more information contact NSU Site Campus Representative Dr. April Adams (918-456-5511 ext. 3819)



**Northeastern Oklahoma
Mathematics and Science
Teacher Association**

Northeastern State University
College of Math Science and Nursing
611 N. Grand
Tahlequah, OK 74464-2302
Phone: 918-456-5511 ext 3819
Fax: 918-4582325
Email: adams001@nsuok.edu

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

The mission of the Northeastern Oklahoma Mathematics and Science Teacher Association is to provide the vision, cooperation, and leadership necessary to promote the highest quality of mathematics education and science education for all students.

Welcome to NOMSTA!

This is our first issue of the Northeastern Oklahoma Mathematics and Science Teacher Association (NOMSTA) Newsletter.

We will be publishing a quarterly newsletter to help keep our members connected and informed about important issues and events in mathematics and science education. Information that you want to include in the newsletter should be sent to

Rebekah Ham, Editor at hamr@tahlequah.k12.ok.us

In this issue you will find:

- Information about our first annual meeting and a pre-registration form
- Information about the NOMSTA leadership
- Information about NSU MASTEP
- A list of math and science teachers who have been awarded NSU MASTEP Supply Grants and Conference Stipends
- A NOMSTA membership form to share