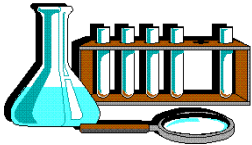


# MSTA

**Newsletter**









Mississippi Science Teachers Association

September 28, 2014

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## 2014 MSTA Fall Conference

October 19 & 21, 2014

At the Marriot Hotel in Jackson, MS

For Hotel reservations call: 1-601-969-5100  
(Be sure to mention MSTA when you make your reservations.)

Free parking for hotel guests (obtain a parking ticket at the hotel check in) and \$4/day for those driving in for the day



**WE WANT YOU!**

**MSTA Conference Needs YOU!!**

We really need more presenters.  
Please consider doing a session for the conference. We have extended the deadline for a few more days.

MORE IMPORTANT ANNOUNCEMENTS ON THE NEXT PAGE.

## Presidential Post:

It has been two years since you selected me to represent you. Time seems to have been on fast forward during this time. In this time I have represented Mississippi in Washington, Puerto Rico, Albuquerque, and Baltimore. I never knew there was so much traveled involved! I am not complaining. I am thrilled to had the opportunity to represent Mississippi at the national level. In meetings I attended I discovered that our state organization is very well structured and stable when compared to other states' organizations. This is due to our excellent board of directors and our membership. The vitality of the MSTA membership keeps MSTA moving forward. I applaud all of you who are presenting at our upcoming conference. I encourage all who attend to rest well before the conference so that you can attend our Monday evening reception and scholarship auction. Come in costume! Come and laugh!

We have two guest speakers this year. Mr. Jeffery Powell, Instructional Technology Director and Apple Educator at Northeast Mississippi Community College will share with us apps to use in the classroom. Bring your smart devices! Dr. Juliana Texley, National Science Teachers Association President, will speak at our Awards Luncheon. She will present "Living through an Avatar" about the use of video games in education. It will be a great learning experience!

Ann Huber, the upcoming president of MSTA, is a dynamic person who will guide us over the next two years. She will be calling upon us all to help improve science education within our state. We need to begin considering what we can present at the 2015 conference. Those of you who feel that you "can't" present....We wall felt that way in the beginning. Don't use that as an excuse! You have great ideas worth sharing.

Thank you for allowing me to serve you. It was such a great honor. Now you are electing a new President-elect who will represent you in the future. Dr. Joe Sumrall and Dr. Johnny Mattox are both worthy candidates for the position. Please look at their biographies on our MSTA website ([www.ms-scienceteachers.org](http://www.ms-scienceteachers.org)) and talk with them at the conference. Your vote counts!

Sincerely, *Betsy Sullivan, President*

### MSTA Online Registration 2014

MSTA Online Registration! Submit your registration (but not the money) through this form. [Aleta Sullivan](#) will email you your "invoice," which is a document made from your submitted form. Please note: You are not TRULY registered until the funds are received.

<http://goo.gl/5c5V9m>

### MSTA registration video instructions

Using the online registration form

***(Aleta Says don't laugh too hard.)***

**Planetarium Show  
6:00 pm--October 19,  
2014**

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## President Elect Post:

Thank you, Betsy Sullivan for an outstanding job as MSTA President. I appreciate your commitment to MSTA. You have been an excellent example for all as a teacher, mentor, and as our leader. May we all emulate your zest for science (and life) in our classrooms!

This week, I have been visiting the schools I teach. Meeting my students face to face is always exciting. Without exception, someone at each school informs me, "You are shorter than you are on TV!" (I teach physics and physical science through Delta State University and MS Interactive Virtual Network.) Teaching methods are changing daily. When I was in college, the thought of owning a computer never entered my mind, much less the idea of using one in the classroom, or teaching in a virtual classroom. Even as we change

some of our pedagogy, there are some parts of being a teacher that remain the same. There is no substitute for a teacher's interest and concern for students.

Students will long recall how we interact with them. Do I really hear what a student is saying? Do I realize the challenges some students have at home? Am I fair? Am I consistent? Do I find ways to help my students be successful? Do I help my students dream big? Am I someone my students can respect? Am I prepared for class? Do my students know that I care about them outside of the classroom?

As I walked the halls in the various schools, I observed the decorations that showed school spirit, I pondered how I could encourage "Science Spirit"! One way to develop student enthusiasm is for me to be enthusiastic myself. The Mississippi Science Teacher's Conference always encourages me, sending me back to my classroom with enthusiasm to spread to my students. The link for the 2014 MSTA Conference is:

[http://www.ms-scienceteachers.org/msta\\_website\\_003.htm](http://www.ms-scienceteachers.org/msta_website_003.htm)

I look forward to seeing you!

Sincerely, Ann Huber *President Elect*

We've added two new tabs to the MSTA Website, Professional Development and MSTA Reads. Bookmark the link below and check them out. If you know any professional development opportunities, please email them to me at [bdjh99@gmail.com](mailto:bdjh99@gmail.com) at [http://www.ms-scienceteachers.org/msta\\_website\\_009.htm](http://www.ms-scienceteachers.org/msta_website_009.htm) **Professional Development** [www.ms-scienceteachers.org](http://www.ms-scienceteachers.org)



## NSTA President (2014-2015) Dr. Juliana Texley visits MSTA Members at the Annual Conference

MSTA is pleased to welcome Dr. Juliana Texley to our 2014 conference. Dr. Juliana Texley is the president of the National Science Teachers Association (NSTA). She is a 21 year veteran of the middle and secondary classroom. She began serving her one-year term on June 1, 2014. She is currently an instructor at Lesley University, Palm Beach State College, and Central Michigan University. Most recently, Dr. Texley worked with a number of stakeholder groups to review the Next Generation Science Standards and developed curriculum for JASON/National Geographic.

Dr. Texley will join us on Monday, October 20, 2014. Stop by the NSTA booth and visit with her and your District VII Director, Dr. John Ammons.

Dr. Texley will also join us at the Monday night reception at the Mississippi Museum of Natural Science and speak at our Awards Luncheon. Please join us at both events!



# Scholarship and Grant Opportunity

## Otis Allen Criteria

1. Request a scholarship application (national or regional) from the scholarship chairperson).
2. Requests must be received two months prior to the national convention or regional meeting to be attended.
3. A person may receive a scholarship once in three to five years.
4. Earliest application received will receive first consideration.
5. Each recipient will receive scholarship monies as partial expense reimbursement after submitting a copy of their registration and a letter signed by his/her principal stating that the recipient attended the meeting.

To request a scholarship application, contact the chairman of the scholarship committee. Send the request to the following: Dr. John Ammons, 209 E. Gresham St., Indianola, MS 38751, Email: [jammons@msdelta.edu](mailto:jammons@msdelta.edu) or [jammons53@hotmail.com](mailto:jammons53@hotmail.com)

## R. C. Roberts Grant Form

The R. C. Roberts Fund was initiated to honor Mr. Roberts, a long-time science supervisor in the Mississippi Department of Education and assist teachers in developing outdoor classrooms, nature centers, or nature trails at their respective schools. Maximum funding that can be obtained by one teacher from one school at a particular time is \$100. Applications for funding must show that additional funds from sources other than R. C. Roberts have been obtained to support the proposed project. This may be “in kind” support as well as monetary. Individuals who receive support from the R. C. Roberts Funds may apply for additional funding provided a period of three years has elapsed since the original funding was granted.

## Guidelines for the R. C. Roberts Fund

Individuals interested in applying for funding should get an application form the Newsletter or request an application form from the Executive Officer or President of the Mississippi Science Teachers’ Association. The completed application must be attached to the proposal and returned to the Executive Officer. The Executive Officer will assemble a committee of at least three individuals involved in science education who will examine the proposal and recommend funding status. The decision of the review committee to fund or reject the proposal is final.

### R. C. Roberts Grant Form

Name: \_\_\_\_\_

School: \_\_\_\_\_

School Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Principal: \_\_\_\_\_

1. How long have you been at the school? \_\_\_\_\_

2. What do you plan to do with the money? \_\_\_\_\_

\_\_\_\_\_

3. List the materials and cost of supplies for this project. \_\_\_\_\_

4. Where is this project located in relationship to the school? \_\_\_\_\_  
 \_\_\_\_\_
5. Do you have the support of the principal? \_\_\_\_\_ other teachers? \_\_\_\_\_  
 If so, name/s. \_\_\_\_\_
6. What kind of monetary or “in kind” support do you have? List. If “in kind” support is provided, estimate its monetary value. \_\_\_\_\_  
 \_\_\_\_\_

Complete the grant form and attach the proposal and return to: Bess Moffatt, MSTTA Executive Officer, 1510 Oldfield Road, Gautier, MS 39553

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## 2013 Mississippi Science Teachers Association Conference Evaluation Summary

Every October MSTTA members are given the opportunity to complete an evaluation at the end of the Fall Conference. The results are used in planning the conference for the next year. In response to preference of days to hold the convention, 69 preferred Monday-Tuesday, 30 preferred Thursday-Friday, 11 preferred Saturday, and 0 preferred Saturday only. When asked about choice of locations for the conference 64 voted for Jackson, 32 voted for Biloxi, 11 voted for Tupelo, and 1 voted for the Delta area.

Last year 97 out of 103 people agreed/strongly agreed they were satisfied with preregistration. Of the 114 who responded to the statement, 105 said the conference sessions related to the Mississippi Science Frameworks. In response to the statement “The overall conference was a success”, 112 responded and 107 agreed/strongly agreed that the conference was a success. Out of 105 attendees who responded to the statement about the awards banquet 102 agreed/strongly agreed they enjoyed it and three were undecided. The most common comments concerning the conference were **excellent, fun, awesome, great, well done, beneficial, and informative**. Be sure to attend the 2014 conference. At the end of the conference fill out the evaluation and let us know what you think about the conference.

*Dr. Burnette Wolf Hamil, MSTTA Conference Evaluator, October 2014, MSTTA Newsletter*

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## News from MSABE

I am so excited for MSTTA conference this year! I would like to take this time to invite you to attend the MSTTA conference and also the MSABE meeting scheduled for Tuesday before the awards luncheon. MSABE has wonderful things scheduled for our meeting. We will have a Biology share a thon, so bring your favorite activity/lesson to share with the group or send it to me, [abigail5warden@gmail.com](mailto:abigail5warden@gmail.com), so your activities can be placed in a google docs file to share with everyone! Also during the meeting, we will discuss a field trip planned to tour IMMS and Hudson Alpha in Alabama. Two door prizes will be awarded to teachers who attend the meeting and pay



their \$5.00 membership fees. The door prizes include an IPOD nano and an IPAD air, so come and join us to have the chance to win one of these amazing prizes! Most importantly, our OBTA recipient will be recognized during our meeting. I am looking forward to meeting him and giving him congratulations on such a deserved honor.

If you cannot attend the meeting but would like to become a member of MSABE, you can send your membership fee to Melinda Miller, treasurer, P.O. Box 588, Poplarville, MS 39470.

Last but not least, if you have any items you would like to donate to give out as freebies let me know.

As I said, I am so excited for this year's conference not only to see old friends but make new ones. Sometimes just being able to share renews our spirit and our love for teaching! So come and see what exciting things are being planned!

Abigail Warden  
MSABE president

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## SCIENCE MATTERS: September 2014

Here are your science education resources and announcements for September 2014 provided by the Science Matters Network. Please forward them on to other science educators in your school and/or school district.

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Education Efficiency Index Gives U.S. Low Ranking

The U.S. ranks 19th out of 30 countries in the outcomes it gets from its investments in education, according to "The Efficiency Index: Which education systems deliver the best value for the money?" <http://www.edefficiencyindex.com/>, a report released earlier this month by GEMS Education Solutions, a London-based education consultancy.

Finland, Korea, and the Czech Republic were the most educationally efficient countries in the study, which is based on 15 years of data from members of the Organization for Economic Cooperation and Development <http://www.oecd.org/unitedstates/>.

Researchers used composite achievement results from the 2012 Programme for International Student Assessment (PISA) as the performance metric and weighed those scores against 63 factors that could influence educational outcomes, such as teaching materials and technology, the quality of school buildings, and teacher training.

Only two factors in the statistical model were found to have an impact on PISA results: changes in teachers' salaries and class size. The U.S. would have to reduce teacher salaries about five percent below their current average of \$41,460 and increase class size by 10 percent--to nearly 17 students per teacher--to be optimally efficient, the researchers said.

Read the report here <http://www.edefficiencyindex.com/book/>.

## **New Poll: U.S. Public Thinks Teachers Need Better Preparation**

Results of a PDK/Gallup poll [http://pdkintl.org/noindex/PDKGallupPoll\\_Oct2014.pdf](http://pdkintl.org/noindex/PDKGallupPoll_Oct2014.pdf) released earlier this month show 60 percent believe entrance requirement in teacher preparation programs must be more rigorous, more than 80 percent believe would-be teachers should pass a national exam - like the bar exam lawyers must pass - in order to teach, and more than 70% say teachers should spend at least a year student teaching.

In addition to increasing the requirements of new teachers, Americans also indicated there should be more support during the process. Most surveyed said those training to become teachers should spend at least one year practicing teaching under the guidance of a certified teacher. Forty-four percent said those training to become teachers should spend one year in such a role, while another 27 percent said the practice period should last two years.

## **NCES Releases Results From the 2012-13 Teacher Follow-up Survey**

Half of teachers leaving the profession report better working conditions in their new jobs, according to a new study <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2014077> released this month on teacher retention and mobility. The data comes from a national follow-up survey that was given to a subsample of teachers who participated in the NCES' Schools and Staffing Survey in 2011-12.

The data found that of the 3.4 million public school educators teaching that year, 84 percent stayed at their schools, eight percent went to a different school, and eight percent left the profession during the following year. Among those that left, 51 percent said they had a more manageable workload, and 52 percent reported better working conditions in their current positions.

## **Teacher Education, Professional Development, and Grant and Award Opportunities**

Applications for the 2015 Mickelson ExxonMobil Teachers Academy close October 31!

By visiting [www.sendmyteacher.com](http://www.sendmyteacher.com) <http://www.sendmyteacher.com>, third-, fourth- and fifth-grade teachers can apply to attend a week-long, all-expense paid professional development program that equips them with new ways to inspire their students in math and science. Join the more than 4,000 teachers nationwide who have attended since 2005. You can nominate a teacher at [www.sendmyteacher.com](http://www.sendmyteacher.com) <http://www.sendmyteacher.com>, or encourage them to visit the site themselves and apply. Don't let this opportunity slip away! Please share it with the teachers in your school today.

## **NSTA NGSS Virtual Conference--NGSS Practices in Action--November 15**

Prominent educators, professors, and curriculum specialists will lead you in immersive sessions to help you to better understand and to apply key principles from the Next Generation Science Standards with K-12 students.

Not an NGSS State? You'll still want to attend to learn more about the NGSS and the NRC Framework for K-12 Science Education best practices that are making their way into classrooms nationwide this fall. Learn more here [http://learningcenter.nsta.org/products/online\\_courses/VirtualConference.aspx](http://learningcenter.nsta.org/products/online_courses/VirtualConference.aspx). Download the virtual conference flyer here <http://www.nsta.org/docs/VirtualConferenceFall2014Flyer.pdf>.

## **The National Teacher Hall of Fame Lifetime Achievement Award**

This award is for career U.S. educators who may or may not qualify for consideration as an inductee and will provide recognition for individuals involved directly or indirectly with education for their significant contributions in support of PreK-12 teachers and the teaching profession.

Generally, selection will be based on contributions made over a career or an extended period. Occasionally, however, the selection may be based upon a single incident or activity. Nominations for the award may be made by any person. The Award is an etched crystal optical tower and will normally be presented in Emporia during Hall of Fame Weekend or in Washington, D.C., during Hall of Fame ceremonies there. Learn more here <http://www.nthf.org/awards>.

### **eCYBERMISSION Competition**

Science teachers and the U.S. Army Educational Outreach Program are on a mission to increase student interest in STEM education through the eCYBERMISSION <http://www.ecybermission.com/program>. Administered by NSTA, eCYBERMISSION is an online learning competition for students in grades six through nine. The competition challenges students to think about real-world applications of STEM by working in teams to identify a problem in their community and using scientific practices or the engineering design process to find a solution. Students can win on a state, regional, and national level, with national winning teams receiving up to \$9,000 in U.S. EE Savings Bonds, valued at maturity.

Registration is now open for the 2014-2015 program year. Students registered by November 5 will receive a FREE STEM Research Kit, which includes a notebook, flash drive, and pencil. For more information, contact eCYBERMISSION Mission Control at 1-866-GO-CYBER (462-9237) or via e-mail at [missioncontrol@ecybermission.com](mailto:missioncontrol@ecybermission.com) <mailto:missioncontrol@ecybermission.com>.

### **Albert Einstein Distinguished Educator Fellowship**

The fellowships <http://www.trianglecoalition.org/einstein-fellows> are available to current K-12 STEM educators with a demonstrated excellence in teaching and leadership. The program aims to provide an opportunity for teachers to inform national policy and improve communication between the K-12 STEM education community and national leaders. Applicants must be U.S. citizens, must be currently employed full time in a public or private elementary or secondary school or school district, and must have been teaching in one or more STEM fields full time in a public or private elementary or secondary school for at least five of the last seven years.

Fellows spend 11 months in Washington, D.C., sharing their expertise with STEM program directors or policy makers. Einstein Fellows may serve in a Congressional office or in one of several government agencies such as the Department of Energy (DOE), the National Science Foundation (NSF), the National Oceanic and Atmospheric Administration (NOAA), or the National Aeronautics and Space Administration (NASA). Fellows receive a monthly stipend and an allowance for professional travel and relocation.

### **Teacher Resources**

#### **NGSS Q&A for Parents**

NSTA has developed a resource for parents to help them better understand the importance of standards and the role they play in education. Science teachers, principals, and other administrators are encouraged to download the Q&A to distribute (and discuss) with parents. Download the parent Q&A here <http://ngss.nsta.org/parent-q-and-a/>, or find it with other great resources at the NGSS@NSTA Hub <http://ngss.nsta.org/>.



The NIH 3D Print Exchange <http://3dprint.nih.gov/> enables users to share, download, and edit 3D print files related to health and science. NIH uses 3D printing, or the creation of a physical object from a digital model, to study viruses, repair and enhance lab apparatus, and help plan medical procedures. The 3D Print Exchange makes these files freely available, along with video tutorials for new users and a discussion forum. The site also features tools that convert scientific and clinical data into ready-to-print 3D files. In the classroom, 3D files could be used, for example, to print models of bacteria and human anatomy. 3D files offer high school and college science educators another tool for enhancing students' science understanding using models.

### **Discover MyPlate**

Teach kindergarten students to make healthy food and lifestyle choices with USDA's inquiry-based nutrition education program, Discover MyPlate <http://www.fns.usda.gov/tn/discover-myplate>. The standards-based curriculum presents six interactive lessons that develop children's food "smarts" through science, reading, and writing activities. Titles include Meet the Five Food Group Friends, Discover MyPlate!, Eat Your Colors!, Planting the Seeds for Healthier Eating, Starting Our Day With MyPlate, and Let's Play, Let's Party! The lessons incorporate the use of supplemental materials that can make learning about nutrition fun, such as nutrition-themed books for emergent readers, a Five Food Groups poster, profile cards of Food Group Friends, and recipe cards for kid-friendly meals. Handouts for parents in English and Spanish are also available.

## **Student Competitions and Grant Opportunities**

### **HQ's Ordinary Object Redesign Student Contest**

HQ, a company that designs user experience and user interfaces for web and mobile, is offering a \$1,000 scholarship to the winner of its Ordinary Object Redesign contest. High school seniors or college students are invited to submit a redesign of an ordinary object in PDF form as well as a one- to two-paragraph description of their project. The description will address the participant's design process, the general elements of good design, and how good design can make something better or more effective.

The competition has no GPA requirement. Those submitting entries must be legal residents of the United States. The deadline is December 31, 2014. Visit the website <http://builtbyhq.com/scholarship/> for more details and official rules.

### **HQ's Ordinary Object Redesign Student Contest**

Eligible middle school and high school students in the United States will work with a faculty adviser in teams of 5-7 and develop an original concept for a mobile app that incorporates STEM principles and content and addresses a societal or community problem. No app building experience is necessary to enter. Eight "Best in Nation" winners will be awarded a \$20,000 cash grant for their school, and students on the winning teams will receive Samsung Galaxy Tabs and be invited to present their developed apps in person at the 2015 National Technology Student Association Conference in Dallas, Texas, in June 2015. More information about the competition can be found here <http://appchallenge.tsaweb.org/about-challenge>.

### **What Is Science Matters?**

Science Matters is an initiative by the National Science Teachers Association (NSTA) to bring content, news, and information that supports quality science education to parents and teachers nationwide.

Science Matters, sponsored by the ExxonMobil Foundation and Shell Oil Company, builds on the success of the Building a Presence for Science program, first launched in 1997 as an e-networking initiative to assist teachers of science with professional development opportunities. Building a Presence for Science--now Science Matters--reaches readers in 34 states and the District of Columbia.

Why does Science Matter? Science is critical to understanding the world around us. Most Americans feel that they received a good education and that their children will as well. Unfortunately, not many are aware that international tests show that American students are simply not performing well in science when compared to students in other countries. Many students (and their parents!) believe that science is irrelevant to their lives.

Innovation leads to new products and processes that sustain our economy, and this innovation depends on a solid knowledge base in science, math, and engineering. All jobs of the future will require a basic understanding of math and science. The most recent ten year employment projections by the U.S. Labor Department show that of the 20 fastest growing occupations projected for 2014, 15 of them require significant mathematics or science preparation to successfully compete for a job.

This is why Science Matters. Quality learning experiences in the sciences--starting at an early age--are critical to science literacy and our future workforce. Feel free to publish this information in school newsletters and bulletins, and share it with other parents, teachers, and administrators.

## Partial Listing of Sessions at the Conference:

Streamline Your Preparation & Presentation	How much time do you spend preparing notes, researching activities and writing tests (not to mention the many other responsibilities you have as an educator)? Through the use of a unique notebooking system, learn how you can spend more time focusing on your presentation and less on the preparation. Join us for free lesson plans and class set giveaways.
Designing Science Learning Stations for Diverse Learners	Keep learners motivated and actively involved while they review old information, learn new information, and practice skills to what they have learned. Join us while divulging in creative learning stations adapted for high school to increase retention and comprehension!
Tools for Addressing the MS Science Tests	See what's new to ensure students are ready for the MS Science Tests at 5th & 8th Grades. Door prizes
Bring Life Science ALIVE in your Classroom!	Bring Life Science alive in your classroom with the Mississippi Museum of Natural Science! Come learn some activities you can do in your own classroom. Also learn how to bring free Wildlife Programs (with live animals!) to your school. Everything is aligned with state curriculum standards.
STEM Institute at MC	We would like to share our vision for the newly created STEM institute at Mississippi College
Presidential Awardee!	Let's discuss how to become a Presidential Awardee. A prestigious award only earned by a few. If you win this award you spend a week in Washington meeting important movers and takers plus receive a stipend of \$10,000. Join us and learn more about being a Presidential Awardee in Mathematics or Science.
Back to Basics: Proven Techniques to Improve Student Achievement in Science	This workshop will provide techniques to improve student achievement in elementary and middle school science. The presenters, all from the Greenville Public School District, include Mr. Melvin D.

	Brown, Science Strategist, and teachers, Mrs. Barbara Horton and Ms. JoAnne Fisher. Come and get practical activities to boost your students to the next level. Handouts will be provided.
Solving History's Mysteries Redux	Learn the mysteries of the yellow fever epidemic of 1878 in Mississippi. Use maps, historical data and personal testimonials from that time period.
The Next Generation Science Standards: What they mean for Earth and Space Science	The new Next Generation Science Standards represent a bold new direction for K-12 science in America, but it also poses many challenges and questions. Prof. Michael Wyssession, a lead author of the NGSS, will talk about the implications for teaching, assessment, and professional development in American Earth and Space Science education.
"Keep That Junk Out of Our Water	Unfortunately, much of our world's water has become contaminated with such things as chemicals, garbage, and plastic. Join me in exploring the importance of clean water and in finding ways to keep it that way!
Scope on a rope	Discuss microscope evolution, parts, and functions. What is the purpose of a microscope? Why do we need it? What is a macro organism? What is a healthy ecosystem and how do you determine it? Take a closer look and some aquatic invertebrates.
Sharing Nature	Sharing Nature With Children gives teachers and youth leaders a simple, structured way to guide students into their own, direct experiences of nature. Through playful games that awaken the students' curiosity and enthusiasm, learning becomes fun, immediate, and dynamic, instead of static and secondhand. The students emerge with a living, fresh understanding and reverence for the natural world
Sciencemania	This workshop will have some hands on lessons and work to enhance the science classroom. These Lessons can be modified for any grade level. There will be a CD handed out at my session. This session will also show some videos that will also be added to you CD. I hope that you will gladly come. There will be door prizes.
Bringing CCSS in your room...	Bringing CCSS in your room is an interactive session on successful strategies for integrating the Reading and Writing CCSS into your classroom. These strategies will be transferable to a variety of science topics. There's a little something for everyone!!
Camp Lake Stephens Environmental Education - Making Field Trips Worth It!	The CLS Environmental Education Program provides educational field trips for students in grades K - 12. Our field trips are tied to the MS Science Frameworks as well as CC Standards. Come hear about opportunities for your students!
Bubble Gum Lab	Learn how to solve problems using the Scientific Method while working together in cooperative groups and chewing BUBBLE GUM! (Who wouldn't want to learn how to blow a bigger bubble?)
eCybermission Update A Free Student Science/Engineering Competition for Grades 6-9	eCybermission is a national online competition for students in grades 6-9. Sponsored by the U.S. Army and the National Science Teachers Association the program involves students in active projects that focus on science/engineering related problem solving and community based improvements.
Discovering Career Paths in Biomedical Science	This presentation will discuss the general process by which students with an aptitude for science can pursue a career in biomedical research

	with an emphasis on opportunities at the University of Mississippi Medical Center in Jackson, MS.
Flipping the Chemistry Lecture/Lab	See how one instructor used technology to flip the chemistry lecture/lab. Benefits from the administrator's perspective and the endless possibilities of customization for any classroom make this scenario a win/win for most institutions and most students.
Formal and Informal Environmental Education in the Northern Gulf of Mexico	Middle school students and teachers from Alabama, Louisiana and Alabama participated in experiential environmental learning activities funded by the Environmental Protection Agency-Gulf of Mexico Program. Gulf of Mexico Priority Issues were stressed in the curriculum reaching more than 4,700 students.
Explore with the SmartMicroScope handheld digital microscope	Hands-On workshop with the SmartMicroScope (both USB and wireless for iPad versions). Discover the microscopic world all around us from insects, rocks, flowers, soil, textiles, salt and other crystals to prepared microscope slides. Appropriate for Pre-K through High School.
Share-A-Thon	Attendees as well as the presenter will collaborate and share lessons, ideas, and important information needed to help strengthen our students in the area of science while enjoying fun Hands on activities.
Balancing Inquiry with Access to Print: Matching Readers to Informational Texts	Participants may bring your own device (BYOD) to this hands-on Power Point session that will empower teachers to adjust the readability of science text passages. Free resources, research-based strategies, and collaborative sharing will be emphasized.
Crossing the Content Areas: Integrating Writing into Science	Participants will examine research-based strategies and MDE guidelines, including graphic organizers, to integrate writing with informational text and technical vocabulary.
Balancing Science with other Text Genres	This session will empower to examine student interests regarding science, and transfer those interests into building stronger readers, especially in grades 2-5. Research based strategies, including interest inventories and text sets will be emphasized.
Teaching A&P with Electronics	This session will focus on using easy to operate sensors to explore concepts in Human Anatomy and Physiology. Participants will see first-hand how easy and fun it can be to teach using probes and sensors.
Population Ecology Lab	This exercise introduces students to the "mark and recapture" procedure for estimating population numbers using a model of an aquatic ecosystem. The materials needed for this exercise are inexpensive and readily available.
Engineering – It's Elementary, My Dear!	Try out an engineering design challenge and get many more to take back to your elementary classroom. This workshop is intended for the engineering design novice. Leave with a variety of inexpensive ideas and resources that will pique your student's interest in engineering. Literature connections will be included.
Engineering – It's Elementary, My Dear!	Try out an engineering design challenge and get many more to take back to your elementary classroom. This workshop is intended for the engineering design novice. Leave with a variety of inexpensive ideas and resources that will pique your student's interest in engineering. Literature connections will be included.
RIDES (Roadways In Developing	RIDES is a hands on math and science program designed for students

Elementary Students)	in grades K-8. The program is provided to Mississippi's teachers by the Mississippi Department of Transportation. This session will introduce teachers to the lesson plans and resources provided through this program. The program is aligned with National Math and Science Standards, Mississippi Frameworks for math and science and the Common Core for Math. Teachers will be register for summer trainings during this session.
Mighty Metric Measurements	Come on in for a hands-on experience using a triple-beam balance, graduated cylinders, Celsius thermometers and metersticks. A how-to guide for setting up a six-station lab activity will be demonstrated. Handouts will be available.
Mammals and Scat	A look at native mammals & there scat. Also a look at the identifying each mammal by its skull, fur, teeth, &scat.
Managing and Setting up a Middle Science Classroom	This presentation will look at how to set up and manage a middle school science classroom. And how the teachers scaffold their curriculum. Will include handouts.
Bits - n - Pieces , Volume 2	Come join us as we share ideas, demonstrations, activities and resources to provide a "lil' bit" of the biological sciences and a "lil' bit" of the physical sciences. Handouts available.
Teaching Kids To Read (in Science)	Reading scientific and technical material is a specialized skill. Using news sources of science stories, science fiction and nonfiction and popular science magazines, you can introduce students to skills needed for textbook and scholarly journal reading. Door prizes will be given out!
Be nominated to win \$10,000!!	Come hear the specifics on how to apply for the Presidential Award for Excellence in Mathematics and Science Teaching from two state and national awardees. Awardees receive \$10,000, a trip for two to Washington, D.C., state and national recognition as well as many other opportunities. Return to your campus ready to nominate or be nominated! Door prizes will be given out!
Improving Science Teachers' Self-Efficacy with Lesson Study	Lesson study has been a popular professional development strategy used in Japan for many years. This presentation will examine the benefits of using lesson study at the pre-service teacher level as well as with in-service teachers to improve science self-efficacy.
eCybermission Challenge	eCYBERMISSION is one of several STEM initiatives offered by the Army Educational Outreach Program (AEOP). It is for 6th-9th-graders and completed entirely online. Grant funding for districts, schools, and teachers are also available.
The Next Generation Science Standards: What they mean for Earth and Space Science	What they mean for Earth and Space Science The new Next Generation Science Standards represent a bold new direction for K-12 science in America, but it also poses many challenges and questions. Prof. Michael Wyession, a lead author of the NGSS, will talk about the implications for teaching, assessment, and professional development in American Earth and Space Science education.
Appy Hour Continued	Have a lively discussion about how you can use apps in the classroom. Take a deeper dive into apps to fit your specific curriculum needs. Let's look at chemistry, biology, A&P, and astronomy and figure out ways to make the classroom and engaging learning environment.
"Life on Earth" - iTunes U	Let's explore "Life on Earth" through this engaging and interactive



	experience. We will discover the world of biology through an iTunes U Course. Free resources for all.
Preparing for Elementary Science Olympiad	An Elementary Science Olympiad can be very beneficial to your students, but where do you begin the process? Discuss how some schools have initiated this fun learning event and how you can get one started in your school.
Petrified Forest Field Trip	See firsthand everything that the Petrified Forest has to offer educators. It is the only petrified forest in the state. It is a wonderful place to take your classes for an engaging and intriguing experience that they will be talking about for years to come. It will cost \$5.00 to enter and an additional \$4:00 if you would like to pan for minerals and gems.
Educating Students for a Sustainable World	Turn today's global challenges into thought-provoking lessons with hands-on activities that explore world population growth, natural resource use, climate change and more. Receive curriculum on CD-ROM.
Geo Science Middle School Teacher Leadership Academy	This summer Mississippi had 6 out of 28 Middle School Science Teachers selected (from across the United States) to attend the Exxon-Mobil Geo-Science Middle School Science Teacher Leadership Academy in Houston, Texas. Come join us during this session if you are interested in finding out more information and seeing examples of activities that your fellow Mississippi Science Teachers learned while attending the Academy.
Hands-On & Inquiry-Based Approaches to Support MS Science Standards & Prepare Students for the 5th & 8th Grade Science Tests	Children are naturally curious about the world around them, and the MS Science Standards and the forthcoming NGSS are designed to assist them in becoming experts. Our time together will focus on understanding the application and the practices of those scientific behaviors to support students learning and curiosity. Children are naturally curious about the world around them and MS State Science Standards and the forthcoming NGSS are designed to assist them in becoming experts. Our time together will focus on understanding the application and the practices of those scientific behaviors to support students learning and curiosity.
USM GULF COAST RESEARCH LAB CONNECTING STUDENTS TO MARINE SCIENCE	This presentation will provide a review of the national ocean sciences bowl's central gulf coast regional competition known as the "Hurricane Bowl" and an exciting new program called "Coastal Ecology Aboard the Miss Peesty B."
Interactive Science Notebooking Part 2	We will revisit how to implement the Interactive Science Notebook in all science subjects. The ISN is a hot topic and an easy and fun way to incorporate color and creativity into the classroom. We will practice an ISN entry and foldable. Materials provided!
Biology Bootcamp 4	Hands-on classroom activities to help students have fun while learning.
Labstravaganza	Need ideas for upper level biology classes? Do you feel left out because you don't teach SATP? Come join us as we discuss and demonstrate labs for marine biology, zoology, and biology 2.
MSABE Annual Meeting	come and meet with your fellow Biology educators. We will have a share time so bring your favorite activity and be prepared to share quickly. We will also have awards presentation for our new OBTA.

	All that attend and pay their \$5.00 membership fees will be entered to win an IPOD nano and an IPAD air. Come and join the fun!
A Plethora of Polymers for the Classroom	Come and join our little band of polymer superheroes for a great wealth of polymer demonstrations. Door prizes and take-aways will be given. You don't want to miss this session!
Hook Your Kids With ASM Materials Science Activities	Come and join our merry band of ASM master teachers to see what kinds of activities are available to you through ASM, an international materials science organization, focused on helping teachers with hands-on activities, labs and demos relating to metals, ceramics, polymers, and composites. Door prizes will be given, and opportunities for summer continuing education credits will be discussed. Hope to see you in our session!
A Plethora of Polymers for the Classroom	Come and join our little band of polymer superheroes for a great wealth of polymer demonstrations. Door prizes and take-aways will be given. You don't want to miss this session!
Soil chemistry on the farm	Make science relevant for your students by incorporating hands-on agricultural inquiry activities. How much fertilizer is lost when farmers apply it under the wrong conditions? Where does it go? What's the environmental / economic impact? Interdisciplinary, adaptable, contextualized engaging fun!
That's Gross!	What's the most gross thing that happens to their bodies? Participate in hands-on activities to get your class involved in the why and how of the really gross and yet common things that happen to the human body.. Yucky and really fun!!!
PAC-MAN: A Motivating Instructional Tool to Learn about Enzyme Specificity	Enzymes represent the core of biochemical education. However, some biology textbooks do not properly represent our current understanding of how enzymes work. To bridge this gap, I developed an interactive 3D model and a worksheet to promote understanding of this concept.
Satellite to Soil: You are NOT Dirt!	You and your students can be part of the GLOBE Community and participate in NASA's new Soil Moisture Active Passive Mission (SMAP). Your students do real science and help scientists validate and monitor the accuracy of SMAP satellite measurements.
Community College Forum	A chance for community and junior college teachers to meet and discuss issues unique to the 2-year college.
Successful Teaching for Everyone	Special invitations to preservice and veteran teachers for a time of sharing success stories. Don't be bashful. Attend this session to inspire others to learn about good teaching points.

# MSTA CONVENTION ADVANCE REGISTRATION FORM

## 2014 MSTA Annual Convention October 19-21, 2014

### Marriott Jackson, Jackson, MS

IMPORTANT NOTES: ONLINE REGISTRATION FORM found here: <http://goo.gl/5c5V9m>

- Each person attending the annual convention must complete a separate form.
- Spouses must file separate forms.
- Convention attendees must wear their nametag to gain admission to all convention activities.
- **Early Bird Advanced registration deadline is Wednesday, October 1, 2014 (applications MUST be postmarked by October 8<sup>th</sup> for early-bird "free" t-shirt).**
- **Continued Advanced registration (no t-shirt) can be made through October 11 (postmarked date).**
- **For hotel reservations: Marriott Hotel-Jackson, Mississippi (Phone: 601-969-5100)**  
**Cut-off-date for rooms is September 18, 2014)**

<p>1. REGISTRATION INFORMATION (PLEASE PRINT)</p> <p>Name _____</p> <p>_____</p> <p>School/Organization (for convention badge)</p> <p>PROFESSIONAL ADDRESS</p> <p>Address _____</p> <p>City/State/Zip _____</p> <p>School Phone _____</p> <p>Grade(s) and/or subjects that you teach:</p> <p>_____</p> <p>_____</p> <p>HOME ADDRESS</p> <p>Address _____</p> <p>City/State/Zip _____</p> <p>_____</p> <p>Home Phone: (____) _____</p> <p>E-mail Address please <b>print carefully</b>: (If you have a personal email address you may want to use it so if you change schools your newsletters and communications will follow you.)</p> <p>_____</p> <p>_____</p> <p>* On-site registration fees will be \$5.00 higher and does not include T-shirt.</p> <p>** Teachers who are also part-time graduate students must register at the Member/Nonmember rate.</p> <p>Send completed form and payment to: MSTA - Aleta Sullivan, Registrar PO Box 588 Poplarville, MS 39470 email: <a href="mailto:aleta@peoplepc.com">aleta@peoplepc.com</a> and I will let you know by email when I receive your registration</p>	<p>2. REGISTRATION FEES*</p> <p><b>Full Program (Mon. &amp; Tues.) Rates</b></p> <p>___ Member/Non-member \$80.00</p> <p>___ Undergraduate/Graduate Student \$25.00</p> <p>___ Non-teaching Family/Guest/Spouse \$40.00</p> <p>These Include the Awards Luncheon on Tuesday.</p> <p>___ OR ___ Daily Admission: [Check the day(s)]</p> <p><b>Monday, October 20 only:</b></p> <p>___ Member/Non-member \$50.00</p> <p>___ Full-time Undergraduate/Graduate Student \$15.00</p> <p>___ Non-teaching Family/Guest/Spouse \$30.00</p> <p><b>Tuesday, October 21 only:</b></p> <p>___ Member/Nonmember \$80.00</p> <p>___ Full-time Undergraduate/Graduate Student \$25.00</p> <p>___ Non-teaching Family/Guest/Spouse \$40.00</p> <p>The Tuesday registration fee includes admission to the Awards luncheon.</p> <p>Total Payment \$ _____</p> <p>Make checks payable to MSTA</p> <p><b>Early Bird Advanced Registration fee includes T-shirt. MUST be postmarked by 10/08/2014.</b></p> <p><b>No registration refunds for registrations after 9/26/2014</b></p> <p>T-shirt size: _____</p> <p>_____</p> <p>FOR OFFICIAL USE ONLY</p> <p>___ Personal Check      ___ Cash</p> <p>___ School Check      ___ Purchase Order</p> <p>Amount Received: _____</p> <p>By: _____ Date: _____</p>
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### MSTA Membership Application

Mississippi Science Teachers Association cordially invites you to become a member.

To do so, please complete the items below. Return completed form and the \$20.00 annual membership fee (\$5.00 student) to:

**Melinda Miller, Treasurer**

Mississippi Science Teachers Association,

**PO Box 588**

**Poplarville, MS 39470**

**Email address:** Please print and use your personal address.

Name: \_\_\_\_\_

Last

First

Middle Initial

Home Address: \_\_\_\_\_

Street or Box

City

State

Zip

Name of School or Institution: \_\_\_\_\_

Work address: \_\_\_\_\_

Street or Box

City

State

Zip

Grade Level: Circle the correct grade K 1 2 3 4 5 6 7 8 9 10 11 12 College Informal

Subject(s) Taught: \_\_\_\_\_