

The Science Scoop

Coverage of:

- ✓ 2018 Fall Conference: ***Saturday, November 3***
- ✓ Member Benefits
 - ✓ MDSTA grants and awards info
- ✓ Science Writing
 - ✓ Articles, Science Surfing, News, Links to science orgs and Opinions
- ✓ Upcoming Science Meetings and Conferences

- ✓ **Wanted:** Articles
- ✓ **Wanted:** Seasonal Science Pictures
- ✓ **Wanted:** MDSTA Board Members at Large and Teacher Organizations Liaisons

The purpose of this organization shall be to promote the professional growth of teachers of science at all levels and to improve the quality of science education in the Metropolitan Detroit area. (MDSTA bylaws). Founded 1941

www.mdsta.org



Metropolitan Detroit Science Teachers Association

A Note from the MDSTA President

HURRY! REGISTER BY OCTOBER 26, 2018 FOR A CHANCE TO WIN \$100

Wow! Who couldn't use \$100 extra dollars for themselves or to use in their classroom?

The Metropolitan Detroit Science Teachers Association and the Detroit Area Council of Teachers of Mathematics for years have provided professional development opportunities for educators of Southeast Michigan by providing an annual Fall Conference. Come and join us on Saturday November 3rd for this year's math and science professional development event at Cousino High School in Warren, Michigan.

If one or more of these statements applies to you, this conference is for you.

- You have been wondering how you are going to address NGSS and Common Core Math Standards with your diverse group of students, each with their own strengths and challenges.
- You have been thinking about ways to expand your use of technology to make math and science concepts understandable and engaging.
- You can't afford to be out of your classroom for a day, but you also know that you could use some new ideas to help you stay current and invigorated as an educator.
- You love math, science, or both, and could use a day with your fellow metro Detroit math and science people to soak up new learning.
- You want a conference that is close, convenient, inexpensive and only one day
- You're interested in the latest math and science products to enhance teaching and learning.

Whether you are a new teacher or a seasoned veteran educator, this conference includes many relevant and interesting sessions for you. Some of this year's features sessions include:

- **NGSS Escape Room Challenge**
- **Modeling Chemistry with Animations, Instead of Whiteboards**
- **Technology: Google Classroom for All Learners**
- **Classroom-Ready Algebra Lessons**
- **Integrating NGSS Engineering Practices and Spicing Up Your Lessons**
- **Many more Math and Science offerings for Elementary and Secondary Educators**

See you at the conference!

Margaret Griffin

griff4sci.mdsta@yahoo.com

2017-2018 MDSTA President



How can MDSTA help? Are you interested in joining our board of directors and plan for science activities and the fall conference? Let us know!

info@mdsta.org , mdsta.org , PO Box 111, Southfield, MI 48037



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MATH AND SCIENCE CONFERENCE

Register at
www.dactm.org

Cousino High School, Warren | Nov. 3, 2018 | 8am– 3:30pm

Register by October 26 for a chance to win \$100!

Two \$100 prizes will be awarded. Must be present at the conference during the drawing to win.

- Network with other educators from Southeast Michigan and beyond.
- Visit a wide variety of vendors in our large vendor area.
- Hear from inspiring teacher colleagues about innovative classroom projects.
- Learn practical, effective strategies and lessons to use with your students.
- Earn SCECHS.
- Join both organizations for a special, conference-only price.
- Energize your teaching!

Practical and engaging sessions include...



2018 GENERAL MEMBERSHIP MEETING

The MDSTA general membership meeting took place this past May on the campus of [Lawrence Tech University](#) in Southfield gathering together MDSTA members, mini-award winners and awardees, friends and families. These year's awardees were:

Ellen Daniel Jones Distinguished Service Award – Denise Hafner

Ms. Hafner is a retired Detroit Public Schools science teacher with over thirty years on the classroom. Denise was involved with our own association for many years and she served as a secretary. Besides teaching, Denise also served as an example to many other teachers though numerous presentations from local to national conferences.

Mini grant - Cheryl Quinn

"Phenomenal Science Meets Honey Creek Community School"

Honey Creek Community School, Honey Creek Community School District

Mini grant - Holly Hereau

"Invasive Species Removal and Pollinator/Rain Garden Installation"

Lee M. Thurston High School, South Redford School District

Mini grant - Robertha Brown

"Challenge your appetite - Prepare to lose"

Mary McLeod Bethune, Detroit Public Schools

CONGRATULATIONS!

Maybe you know someone who is well deserving of becoming 2019 outstanding science educator or can get some additional assistance with sponsoring a science classroom activity? [CLICK HERE](#) to download an application form. Application Deadline: January 31

Ellen Daniel-Jones Distinguished Service Award *edited by Pamela* *Callaway*

A devotion to children and learning... those words describe this phenomenal woman. She was extremely dedicated to education and professional in all her endeavors. Ellen Daniel-Jones (1942-2007) began her teaching career in the Detroit Public Schools System as a teacher in 1964, teaching in elementary and high school before leaving the classroom. She served as a science department head in 1987, and moved into the position of Science Curriculum Supervisor in 1994 where she continued to serve until her untimely passing.

Ellen prized learning. As a student at the Alger Elementary School, her love for science and mathematics were nurtured and developed. Ellen matriculated through the Detroit Public Schools, graduating in 1960 from Northwestern High School. Ellen's love for learning continued in college, where she received her Bachelor of Science degree from Michigan State University in 1964 and a Master of Education degree from the University of Michigan in 1976.

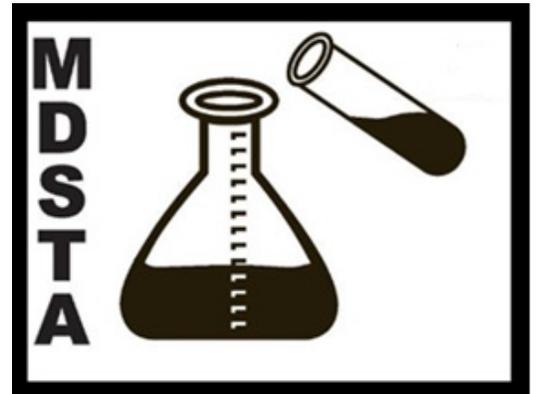
If you knew Ellen, you were keenly aware of her dedication, love, and untiring efforts to remain at the forefront of emerging techniques to provide the very best in classroom instruction for the students of the Detroit Public Schools. Ellen attended conferences and workshops across the state. She was passionate about education, devoting more than 40 years to the Detroit Public Schools. She mentored teachers in other districts. In 2004, she was presented with the MDSTA "Distinguished Service Award" in recognition of her outstanding and selfless devotion to the association, where she also served as Executive Secretary. She also enjoyed memberships in the Michigan Science Teachers Association and the National Science Teachers Association.

The Metropolitan Detroit Science Teachers Association recognizes the values, dedication and leadership of teachers who exhibit these qualities by awarding "The Ellen Daniel-Jones Distinguished Service Award", in honor of this phenomenal woman.

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*Membership and Award Meeting
May 2018*



2018 Ellen Daniel Jones Distinguished Service Award

Denise Hafner

(Here with MDSTA president, Margaret Griffin—right)



Mini grant - Cheryl Quinn (left)
"Phenomenal Science Meets Honey Creek Community School"
Honey Creek Community School, Honey Creek Community School District

Mini grant - Robertha Brown (middle)
"Challenge your appetite - Prepare to lose"
Mary McLeod Bethune, Detroit Public Schools

Mini grant - Holly Hereau (right)
"Invasive Species Removal and Pollinator/Rain Garden Installation"
Lee M. Thurston High School, South Redford





METROPOLITAN DETROIT SCIENCE TEACHERS ASSOCIATION

SERVING SOUTHEAST MICHIGAN SCIENCE TEACHERS SINCE 1941

Receive discounts to MDSTA conferences and workshops

Annual membership meeting in May

Receive e-blasts and e-newsletters

Membership Benefits

MDSTA



GRANTS

Apply for the MDSTA-Mini Grants:

There are up to six mini-grants awarded annually based on applications. Mini-grant requests for up to **\$500**.

Nominate teachers for the MDSTA Outstanding Educator Award

Nominate an educator for the Ellen Daniel-Jones Distinguished Service Award:

The qualifications for the Ellen Daniel-Jones Distinguished Service Award are leadership, service, and exemplary teaching for over 15 years.

Visit our site mdsta.org and follow the Grants/Awards tab or click on:
<https://mdsta.wildapricot.org/Grants/Award>

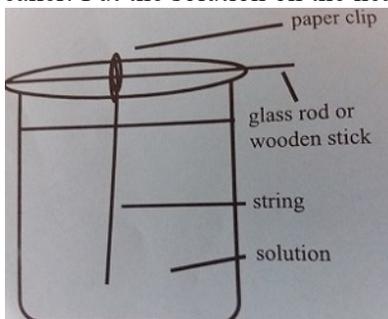
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Crock Candy: Solubility, Crystallization, and a Tasty Treat.... by Connie Eisenhart

The solubility of an organic solid (sugar) in a solvent like water (or most organic solvents) usually increases very rapidly as the solution is heated. As the solution cools undisturbed, the excess solute will form crystals. The string provides an irregular surface which allows for nucleation of the crystals.

Fill a beaker $\frac{3}{4}$ full (75mL) with water at room temperature. Add an equal amount of sugar and stir for three to five minutes. Let the solution “rest” for one minute. Resume adding sugar, about a tablespoon at a time, stirring between each addition until a residue remains in the beaker. Put the solution on the heat source, stirring constantly until all the sugar is dissolved in the solution. Continue heating and stirring until the solution begins to boil. Remove the beaker from the heater and place it in an easily accessible location where it will remain undisturbed for about a week. Using the stick and paper clip (see figure below), set a string into the center of the beaker. Check the beaker daily, and watch the crystals grow!



Stoma Simulation Extended ... by Connie Eisenhart

It is difficult for middle school students to visualize a stoma opening as its guard cells swell. This is a simple device used to demonstrate stoma opening.

Take two oblong balloons and stretch them by inflating each balloon once. On the now deflated balloons, place one or two strips of tape, one on top of the other, down the length of each balloon. The tape represents the thickened inner wall of the guard cell. When the balloons are again inflated (when water enters the guard cells), they will curve or mushroom around the tape. If the two inflated balloons are placed “taped sides together,” a hole or “stoma” appears. Simultaneous slow deflation of the two balloons will show the “Stoma” closing as “water” leaves the “cells”. The slow deflation of the balloons is best accomplished by closing the balloons with plastic bag closers. Do not tie knots in order to close the balloons. They become very difficult to deflate slowly if they are knotted.

Connie Eisenhart is a science teacher at Guardian Angels Academy and the treasurer of the MDSTA Board of Directors. Contact Ms. Eisenhart at: eisieinsect9@yahoo.com



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WANTED: Articles for Upcoming MDSTA Newsletters

The Metropolitan Detroit Science Teachers Association wants to publish your articles in an upcoming issue of the newsletter. We are interested in articles on various science and education topics that are appropriate for the Pre-K-12 classroom. Your favorite lessons, updates to websites for teachers or interactive lessons, conference participation and cool ideas for reading are just the beginning. Let us know of upcoming events and we will share with the community!

Send articles to
newsletter editor
Valentina Tobos at
vtobos@ltu.edu

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Science Surfing – by members submission ... and David Bydlowski!

NGSS Science Websites Help and Freebies

www.mysteryscience.com
www.explorellearning.com
[Freebies](#)

NASA Science

Visit <http://science.nasa.gov/>

Don't miss out on upcoming NASA education opportunities.

For a full list of events, opportunities and more, visit the Educators and Students Current Find NASA science resources for your classroom. NASA Wavelength is a digital collection of Earth and space science resources for educators of all levels -- from elementary to college, to out-of-school programs. <http://nasawavelength.org/>

Visit NASA Education on the web

NASA Office of Education: <http://www.nasa.gov/education>

For Educators: <http://www.nasa.gov/audience/foreducators/index.html>

For Students: <http://www.nasa.gov/audience/forstudents/index.html>

NASA Kids' Club: <http://www.nasa.gov/kidsclub>

NSTA Reports

“[NSTA Reports](#), NSTA's newspaper published nine times a year as a member benefit, is the association's timely source of news and information for and about science educators at all levels. It includes national news on science education and education in general;”

NASA STEM

Are you looking for NASA educational materials to support your STEM curriculum? Search hundreds of resources at:

<http://www.nasa.gov/education/resources/>.

STEM Update

- ✓ [Assessment items tied to NGSS](#) This google doc has assessment items connected to certain CCC, SEP, and DCI's. aarends@clackesd.k12.or.us
- ✓ AAAS Science Assessment <http://assessment.aaas.org/topics>
- ✓ More [NGSS Assessment Resources](#)
- ✓ stemteachingtools.org - especially tools 30 and 41 that provide quality ideas (scaffolds) for integrating SEPs and CCCs into assessment questions.
- ✓ A couple other repositories of resources: <https://dpi.wi.gov/science/assessment/examples> and <http://cosss.org/StateAssessment>
- ✓ Evaluating Assessment Items:

As the science education community focuses on how to assess student learning under new science standards, the question of how to determine the quality of potential assessment tasks

arises time and again. Achieve is excited to release [two new tools](#) intended to assist educators in evaluating science assessment tasks to determine whether they are designed for three-dimensional science standards based on the *Framework for K-12 Science Education*, such as the Next Generation Science Standards.

The [Science Task Prescreen](#) is used to conduct a quick review of assessment tasks to identify any "red flags" - challenges commonly found in science assessment tasks - and determine whether a task is worth a more rigorous evaluation.

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Read a bounty of science news and watch video clips at:

The [Science Task Screener](#) is used to take a deeper dive into evaluating science assessment tasks. The Screener is organized around four key criteria, each with a set of indicators to help reviewers determine whether the criteria are met and a set of response forms for gathering and analyzing evidence, providing suggestions for improvement, and rating the task. The Screener builds off the criteria in the [EQuIP Rubric for Science](#) by more clearly specifying features for the assessment tasks embedded in lessons and units.

If you have questions or are interested in professional development opportunities related to evaluating science assessment tasks, please contact ngss@achieve.org. You can also learn more about the broader science professional learning services that Achieve offers, including support for science tasks, [here](#).

Citizen Science for Your Classroom

Are you interested in Citizen Science for your Classroom? Consider joining NASA's Globe program: Veteran GLOBE teacher Jeffrey Bouwman and the Gibraltar School District's Shumate Citizen Scientists work in research teams to conduct environmental research around the Shumate Middle School/Carlson High School campus, in the city of Gibraltar, and near the Detroit River and Lake Erie. Each group connects with a STEM professional and collaborates with experts from Wayne RESA, The GLOBE Program, YLACES, CoCoRaHS, and NASA. All teams also compete in this year's GLOBE International Virtual Science Symposium (IVSS) and Student Research Symposium (SRS).

Check out Shumate Scientists in action by visiting Shumate Science on Facebook.

If you are interested in implementing the GLOBE Program at your school, please contact Mr. David Bydlowski (bydlowd@resa.net), Mr. Andy Henry (henrya@resa.net), or Mr. Jeffrey Bouwman (bouwmaj@gibdist.net). #GettingScienceDone

Earth Science Week and AREN Project

Do you teach Earth Science, if so.....Was wondering if you would like this year's Earth Science Week Packet. The theme for this year's Earth Science Week is "Earth as Inspiration." It takes place October 14 - 20.

The AREN Project: <https://www.globe.gov/web/aren-project>

in conjunction with NASA's Science Activation Team: <https://science.nasa.gov/science-activation-team>

is making this packet available to you, free of charge. You can see a list of the materials in the packet, by visiting:

<https://www.earthsciweek.org/materials>

Packets are limited, so place your order as soon as possible. To order a packet, just send an email, with your mailing information to:

Linda Olinik olinikl@resa.net

Take care, Dave Bydlowski -- AREN Project

Southfield, MI, Extreme Science Saturdays

Open to high school students of all ages, eXtreme Science Saturdays gives you hands-on experience using state-of-the-art equipment in a modern lab. https://www.ltu.edu/community_k12/extreme-science-saturdays.asp

The Teaching of Climate Science

National Science Teachers Association [position statement](#).

STEM Virtual Conference

By coordinating science and math courses with technology and engineering courses, teachers can give students a better understanding of the world in which they live. Few of today's students understand the way in which these fields benefit our society or the variety of career opportunities that are available to them. Join us for a virtual conference on [Embracing STEM](#). [Register](#) before November 9 and save \$10!

Teach the Nobel Prizes

Lessons on the recent Nobel Prize winners in Medicine, Physics and Chemistry and on Alfred Nobel and the Nobel Prize that include videos, a slideshow, a teacher's guide and a student worksheet are available <https://www.nobelprize.org/education-network-nobel-prize-lessons/>

MCWT Grant for All-Girl Robofest Teams

The Michigan Council of Women in Technology Foundation, 15-year sponsor of Robofest, just announced that they are once again providing \$500 grants for up to six all-girl Robofest teams for the 2019 Robofest Game and Exhibition competition. Deadline for application is December 16, 2018. More information and the application has been posted to their webpage

https://mcwt.smapply.io/prog/robofest_grant/

When in California ...

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Visit the Exploratorium at Pier 15 Step inside a [tornado](#), turn upside down in a [curved mirror](#),

<https://www.exploratorium.edu/visit>

STEMfest

STEMfest at Lansing Community College will be held on Nov. 3, 9 a.m. – 1 p.m. It is a **FREE** hands-on event for grades K-6. For more info and to register, visit the [Lansing Community College website](#).

Online STEM Certification – Michigan Virtual

Michigan Virtual is partnering with [STEM.org](#) to provide an online version of the world’s leading STEM education certification. Through this program, educators gain insights on the latest trends in STEM education and access to over 1,000 pages of innovative and customizable K-12 STEM lessons. To kick off our new partnership, we are offering Michigan educators over a 30 percent discount on this certification. **Learn more:** <https://hubs.ly/H0dQYCn0>

12 Videos to Introduce Climate Change to Middle School Students

There is mounting evidence that Earth’s climate is changing. Still, there are so many different ideas and opinions on the issue that we don’t always know how to talk about it. We do know that patterns of extreme weather, pollution, and the availability of natural resources are linked to climate change. But how? What role do we have in that? Better understanding of the science behind the rise in global temperatures can help us talk about our changing climate and take action. With a sound understanding, we can begin to think critically about the historical causes and—most importantly—make informed decisions about solutions for the future. [Links](#)

PIRA- Physics Instructional Resource Association

http://physicslearning2.colorado.edu/PIRA/index.php?option=com_content&view=featured&Itemid=101

MSTA

NOW ACCEPTING speaker applications for the Michigan Science Teachers Association's 66th Annual Conference! The application is due on Wednesday, October 31, 2018. March 1 - 2, 2019' Amway Grand Plaza Hotel, Grand Rapids, MI, [Teacher Application](#), [Exhibitor Application](#) **NOTE:** Vendors who submit an application must also be a vendor/exhibitor at the conference. Contact the MSTA office with any questions or concerns, 34-973-0433 (phone), 734-677-3287 (fax)

Dan Wolz Clean Water Education Grant

The Michigan Water Environment Association (MWEA) is pleased to announce the “Dan Wolz Clean Water Education Grant” for this year. The Dan Wolz Clean Water Education Grant was established twelve years ago to heighten public awareness of the career opportunities our industry has to offer and to improve the quality and quantity of clean water community education in Michigan’s public schools. Dan Wolz was a true environmental steward of the Earth. Thus, in recognition of the passion Dan had for education, this award continues to reach hundreds of Michigan students.

Submit the application by October 31, 2018 to: susantate@whitehallschools.net with “Dan Wolz Award” in the subject line. For more information about the award go to: <https://www.mi-wea.org/cweg.php>

For grant application questions, please contact susan_tate@msta-mich.org

Cranbrook Institute of Science

Halloween with Cranbrook and [more](#).

University of Michigan - Saturday Morning Physics

<http://www.saturdaymorningphysics.org>

View past lectures on YouTube: <http://tinyurl.com/nwb8ydu>

Michigan Assessment Consortium

The mission of the MAC is to improve student learning and achievement through a system of coherent curriculum, balanced assessment, and effective instruction. <http://www.michiganassessmentconsortium.org/>

Legislative Update: Congress Passes FY2019 Education Spending Package

[link](#)

Virtual Reality, Augmented Reality, and Mixed Reality

What do you know about VR, MR, and AR? [Preparing for new “realities”](#)

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NASA Launch

A United Launch Alliance Delta II rocket lifted off at 6:02 a.m. PDT (9:02 a.m. EDT) on September 15, 2018 from Space Launch Complex 2 at Vandenberg Air Force Base in California carrying NASA's Ice, Cloud and land Elevation Satellite-2 (ICESat-2). The spacecraft will measure the height of a changing Earth, one laser pulse at a time, 10,000 laser pulses a second. The satellite will carry a single instrument, the Advanced Topographic Laser Altimeter System. ICESat-2 will help scientists investigate why, and how much Earth's frozen and icy areas, called the cryosphere, is changing. View the following site to watch a video of the launch and learn more about the ICESat-2 mission: <https://icesat-2.gsfc.nasa.gov>

Captain Planet Foundation Grants - Apply by Jan. 15

The Captain Planet [Foundation](#) supports programs that embrace STEM learning and empower youth to become local and global environmental change-makers. It is offering grants from \$500 to \$2,500 to educators (both K-12 classroom and informal) to help children and youth understand and appreciate our world through learning experiences that engage them in active, hands-on projects to improve the environment in their schools and communities.

Hands on Minds ON

The Toshiba/NSTA ExploraVision science competition encourages K-12 students to imagine what technology might be like in the future while experiencing scientific process and discovery in an engaging, hands-on way. Let's empower the next generation of inventors, scientists and leaders. It's not too late to register your teams! **Deadline for submissions is February 6.** Download our [free lesson plans for teachers](#) and [register](#) online today!

Disclaimer: At the time this newsletter was assembled, these sites were active.

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Science Matters: FALL

Hello Michigan Science Leaders:

This is the first newsletter of the 2018-19 school year. Future editions will continue to arrive the first week of each month. Please submit content for the next edition by the 20th of each month. If you have questions or comments, please also email me any time. Thanks.

This month's newsletter can be accessed via this link:

<https://drive.google.com/open?id=116CWpfa4BuDy9o7Q1gt9Qf-pKYLXdRyj>

Do you know a key leader or point of contact for science who is not already getting the Science Matters Newsletter? Please forward this email and ask them to contact me: bacolor@resa.net

Thank you and science on,
Rich Bacolor

Please contact state coordinator Richard Bacolor at bacolor@resa.net to subscribe.

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	President's Message
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	Professional Learning
	Page 3 and 4
	Grants and Student Opportunities
	Pages 5
	Links and Resources



Top Topics A-ZMDE strives to make its information as accessible as possible. As a result, we provide volumes of information on our Website. Below are the most frequently requested information in [alphabetical order](#).

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Other Important LINKS

Upcoming Meetings and Conferences

- ACS**
March 31-April 5, 2019, Orlando, Florida
Please visit: <https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html>
- AAPT**
January 12-15, 2019 Huston, TX
Please visit: <https://www.aapt.org/Conferences/>
- MI-AAPT**
TBD
Please visit: <http://web.miaapt.org/home>
- DMAPT**
October 27, 2018, Royal Oak High School, Royal Oak, MI
<http://www.dmapt.org/>
[Register](#)
- NABT**
November 8, 2018, San Diego, Ca
Please visit:
<http://nabt.org/websites/institution/index.php?p=10>
- MSTA**
March 1, 2019 Amway Grand Plaza Hotel Grand Rapids MI
Please visit: <http://msta-mich.org>
- NSTA**
April 11, St. Louis, Mo
Please visit: <http://www.nsta.org/conferences/>
- MDSTA (w/ DACTM)**
November 3, Cousino High School, Warren, MI
Please visit: <http://www.mdsta.org>
- MACUL**
March 20-22, 2019, Cobo Center, Detroit, MI
Please visit: <http://www.macul.org>
- MAEOE**
September 27-29, Kettunen Center, Tustin, MI
Please visit: <http://www.maeoe.com/>
- MESTA**
TBD
Please visit: <http://www.mestarocks.org>



Science Associations

- MDSTA Home page: www.mdsta.org
MSTA (State science teachers organization): www.msta-mich.org
DACTM (Mathematics): www.dactm.org
AAPT Committees lists: www.aapt.org/Resources/lists.cfm
MI – AAPT (physics): web.miaapt.org
NABT (biology): www.nabt.org
AACT (chemistry): www.acs.org/content/acs/en/education.html
NESTA: <http://serc.carleton.edu/nesta/index.html>

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2018 MDSTA Board of Directors

Elections for 2019 will be announce through email – you can nominate board of director members by sending an email to info@mdsta.org

LaVetta Appleby – Director
Erica Ballard – MSTA liaison
David Bydlowski – Web Administrator
Pamela Bentley Callaway - Executive Director
Cassandra Cayce – Director
Connie Eisenhart – Treasurer

Kimberley Finley -Director
Margaret Griffin – President
Tooba Mansoor - Secretary
Debby Peters – Membership Registrar
Valentina Tobos – Newsletter Editor
Kelvin Wise – President elect

<http://mdsta.org/Board-Members>



2018 Scheduled Meetings of the MDSTA Board

You are welcome to attend all MDSTA Board Meetings. Most meetings are held at **Lawrence Technological University, 21000 West 10 Mile Road, Southfield, MI, 48075** ([map](#)). Meetings take place the second Tuesday of the month.

November 3 - Fall Conference at Cousino High School, Warren, MI
December TBD

Not pictured Kimberley Finley

Come Join the MDSTA Board of Directors Team!

Are you interested in joining a team of dynamic education professionals from the metropolitan area? Become more involved by considering being on the board of directors of the MDSTA. We are looking for all levels of teacher education, from pre-K to higher education, both pre- and in-service, retired teachers and administrators. All professionals from the tri-county public, charter, or private schools may participate. Home school educators are very welcome too.

Submit your name and contact information to:

Pamela Callaway, executive director
info@mdsta.org

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Liaisons NEEDED: we are looking for individuals that can play a liaison role between MDSTA and other local and regional teacher organizations such as: ACS, DACTM, MABT, MACUL, Michigan Science Center, MSELA, MESTA, AAPT, and others. Contact info@mdsta.org if interested.

Newsletter

Consider sending articles, teaching materials, photos, student work and other science and general education information to be included in the **MDSTA newsletter**. The letter is e-published twice a year. Any news should be sent to Valentina Tobos, MDSTA board member and newsletter editor. An archive of recent newsletter can be found on our main web page at: www.mdsta.org, under the tab named NEWS. Please send all materials to vtobos@ltu.edu

Your participation in all the activities of the MDSTA is very valuable. THANK YOU!

CONTACT US

Snail Mail

Metropolitan Detroit Science Teachers Association
MDSTA -- P.O. Box 111
Southfield, MI 48037

Twitter

@MDSTAScience

Facebook

facebook.com/mdstascience

Newsletter

vtobos@ltu.edu

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