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### [Science Matters - Michigan](#)

To submit content or join the Science Matters email list, please contact:

#### **Richard Bacolor**

Science Matters Michigan,  
State Coordinator

Email: [Bacolor@resa.net](mailto:Bacolor@resa.net)

Please submit content by  
**October 20** for the November  
Edition.



I hope you had a wonderful first month of the new school year. Throughout 2018-19, the Michigan Science Teachers Association will continue its mission to stimulate, support, and provide leadership for the improvement of science education throughout Michigan. Last year, MSTA celebrated 65 years of making a difference! It was so exciting to celebrate this with educators from across the state at the annual conference in Lansing. You will not want to miss the 2019 conference as the celebration of science and engineering will continue! I am so proud of all of you, and thank you for sharing the amazing world of science with all your students. Have a wonderful school year, and see you at the conference!

Brian Peterson, MSTA President

**Save the Date!!**  
**#MSTA19 is March 1-2, 2019 in Grand Rapids**  
**Presenter Applications due October 29**  
[\*\*Click Here to Submit\*\*](#)

## MSTA Membership Information: [Click Here](#)

[\*Have a Submission for Science Matters Michigan? Email Us.\*](#)

## Professional Learning Opportunities

### ***Michigan Inland Lakes Convention***

The Convention will kick off with a welcome reception on Wednesday evening, October 3. Thursday morning, two outstanding keynote speakers - Bill Creal, former Water Resources Division Chief for the Michigan Department of Environmental Quality, and Lisa Borre of the Cary Institute of Ecosystem Studies - will set the tone for the Convention along the theme of "Working Together for Healthy Lakes" - on local, state, and global scales. We will break out into thematic sessions on Thursday afternoon, followed by an evening reception highlighting posters and educational displays. Friday morning, the thematic breakout sessions will continue, and Friday afternoon will offer a variety of workshops, field trips, and breakout sessions.

More information (On-site registration will be available):

<http://www.canr.msu.edu/michiganlakes/convention/>

### ***State of Lake Superior Conference***

The 2018 State of Lake Superior Conference will be held October 9-12 on the beautiful campus of Michigan Technological University in Houghton, Mich.

The conference is hosted by the International Association for Great Lakes Research with generous support from sponsors and local university hosts. SOLS18 is the second in an annual series of State of Lake conferences aimed at bringing together lake-specific research, policy development, management, education, and nonprofit organizations to broaden the discussion and provide diverse interaction among stakeholders.

Register here (deadline is Oct. 1): <http://iaglr.org/sol/sols18>

### ***Metro-Detroit Science Teacher's Association Fall Conference***

DACTM and MDSTA Math and Science Conference, November 3, Warren Cousino High School, 30333 Hoover Road, Warren, MI 48093. More Information and Registration here:

<http://www.mdsta.org>

### ***Michigan Alliance for Environmental and Outdoor Education Conference***

Highlights from this year's conference include:

Environmental Educator Certification – This year's MAEOE Conference features Environmental Educator Certification (EEC) capstone presentations by 11 candidates. For those would like to get started on their path to certification, the conference offers the EEC Strand 1 as a pre-conference workshop on Thursday, October 4th.

Breakout Sessions and Field Trips – Learn about climate education, creating an outdoor classroom, teaching nature writing and observation skills, pollinators, and much more! Visit the Rock Glen Conservation Area in Ontario, Canada, with its diverse assemblage of flora and fauna and Devonian period fossils. Check out the Pine River Nature Center's 80 acres of hardwood

forest, wetlands, and prairie and enjoy a hike along the ravines of the Pine River. Additionally, venture over to Sarnia, Ontario, for a hike through a Carolinian forest, wetland, and dune reserve in Canatara Park.

Project WILD– Join Michigan’s Project WILD Coordinator in a whirlwind tour through the newly improved K-12 Terrestrial WILD Guide. Participate in hands-on activities that will help you facilitate a student’s learning and retention of life science standards, STEM and career options. Educator level certification and a guide are included in this workshop!

Cooking and Crafting with Invasive Plants- Learn how you can cook and craft invasive plants once you have removed them. Making jam, syrup, greeting cards, and more will be covered in this intriguing workshop. You will be able to bring awareness of this unique opportunity to your community.

For more information about how to attend the 31st Annual MAEOE Conference, visit <https://www.maeoe.com/conference>.

## Grants

### ***Michigan Nature Association 2019 Nature Field Trip Grants***

The Michigan Nature Association announces the availability of \$500 grants for field trips to natural areas for the 2018-2019 school year. These grants are intended to assist teachers in developing fun, hands-on field trips for teaching students about the natural environment. The grants can cover bus transportation and educational supplies for field trips to eligible natural areas, including community nature centers, MNA sanctuaries, state parks, and other conservation lands deemed suitable for field trips. MNA is especially interested in applications from urban schools with limited access to natural areas.

[Click here for Application PDF](#)

## Student Opportunities

### ***Southeastern Michigan Junior Science & Humanities Symposium***

**High School Student STEM Researchers** and their **Teachers** are invited to attend the Junior Science and Humanities Symposium (JSHS) Program, sponsored by the Academy of Applied Sciences and the U.S. Army, Navy, and Air Force. Since its inception in 1958, the primary aims of JSHS are ***to promote research and experimentation at the secondary school level and to recognize students for original research achievements***. **Participation in the symposium is FREE for all eligible high school students and their teachers.**

In the Southeastern Michigan region, the program is housed in the College of Education at Wayne State University. Every year, students from high schools state-wide, attend the symposium at Wayne State University, where they present their research and participate in tours of selected science laboratories, and interact with professional science researchers throughout the day.

Finalists are notified of awards to advance to the National Symposium during the dinner banquet.

Regional finalists will be invited to attend the National JSHS, *all expenses paid* by the Army Educational Outreach Program.

- The Symposium is a valuable resource for students who plan to participate in this year's Science Fair and/or Science Olympiad.
- Students who present their research at the Symposium have the opportunity to receive significant scholarships, to the University of their Choice, at the regional and national levels.
- **Registration opens October 4, 2018** at: <http://coe.wayne.edu/ted/science/jshs/>

## **Detroit ICO and Detroit Outdoors: Youth Camping Opportunities in Detroit!**

Detroit Inspiring Connections Outdoors (ICO), an outdoor adventure and environmental education program of the Sierra Club, provides urban youth with positive outdoor experiences.

**Detroit ICO is also excited to be a collaborative member of the [Detroit Outdoors youth camping initiative at the city's only campground: Scout Hollow](#).** Our volunteer leaders work in diverse communities with local agencies, such as schools, youth development organizations, church and neighborhood youth groups, and outdoor clubs, to provide wilderness experiences and environmental education for people who otherwise might not have the them. Read about our recent camping trip at the [Sierra Club Outdoors blog](#).

Rouge Park is Detroit's largest park at 1,184 acres and contains beautiful sections of river and forest to explore. Nestled within the park is Detroit's only campground, a 17.4 acre natural area called Scout Hollow. The Detroit Outdoors program provides training, gear rental and programming for youth groups, scout troops and school classes to have an overnight camping experience right in their own city.

Scout Hollow is a tremendous natural asset that is equipped with three camping sites that accommodate up to 30 campers each. The campground is open to all youth serving organizations and is primarily focused on supporting groups from Detroit and surrounding communities. The goal is to connect the neighboring communities with the local natural environment and inspire youth to spend more time outdoors.

Once youth group leaders participate in the Camping Leadership Immersion Course they gain access to training materials and a gear library that contains all the equipment needed to outfit their group for a safe and memorable camping trip at Scout Hollow.

Camping at Scout Hollow is a Detroit Outdoors program, run in partnership with the city of Detroit's Parks and Recreation Department, Sierra Club ICO, and YMCA of Metropolitan Detroit.

For more information visit <https://www.sierraclub.org/michigan/detroit-ico>  
Email: [detroitico@gmail.com](mailto:detroitico@gmail.com)

## Links & Resources

### *Michigan Science Teachers Association*

### *Science Matters Network Home*

Science Matters is a major public awareness and engagement campaign designed to rekindle a national sense of urgency and action among schools and families about the importance of science education and science literacy. Science Matters 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. The Building a Presence for Science network—now the Science Matters network—reaches readers in 34 states and the District of Columbia.

The Science Matters network is a vehicle for information dissemination and communication. Through the electronic network, teachers of science become aware of professional development opportunities, science resource materials, and funding programs within their area, region, state, and/or at the national level. They will also receive important information, helpful articles and materials to pass on to parents that focus on quality learning experiences in the sciences—starting at an early age—and why science education is critical to science literacy and our future workforce.