



CRCST

Cleveland Regional Council
of Science Teachers

Winter 2019 Newsletter

Jeff Teeter, editor

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NIGHT AT THE CLEVELAND BOTANICAL GARDEN



CLEVELAND REGIONAL COUNCIL OF SCIENCE TEACHERS

Proudly sponsors science teachers for an exclusive social event.

Please join us

Wednesday, April 3, 2019 | 6:30pm - 8:30pm



AMAZING BUTTERFLIES

@CLEVELAND BOTANICAL GARDEN

Become one of the most extraordinary creatures on earth at the Botanical Garden's new Amazing Butterflies exhibit. You can enjoy this interactive exhibit that explores the amazing life cycle from caterpillar to butterfly, different butterfly species, their unique survival challenges and more. Observe hundreds of live, exotic butterflies in the Costa Rica biome of the glasshouse. Indoor flower displays filled with fragrant spring bulbs will help you bid goodbye to your winter blues.

Free Admission for science teachers
(bring event flyer and school ID for admittance)
Network with other science teachers
Light refreshments will be served



HOLDEN
FORESTS &
GARDENS



CLEVELAND BOTANICAL GARDEN
11030 EAST BLVD, CLEVELAND, OHIO 44106
216.721.1600 CBGARDEN.ORG



The Cleveland Regional Council of Science Teachers

CALL FOR JUDGES THE 2019 NEOSEF AWARDS

On March 11 to March 14, 2019, between 400 - 500 students will join together at Cleveland State University to demonstrate their knowledge of an area of science at the North East Ohio Science and Engineering Fair. CRCST has supported the program and the students by sponsoring 9 awards for the 7th and 8th graders every year. We give \$100 Award for Biology, Chemistry, and Physics each along with \$50 Award in Medicine/Health, Environmental Science, Behavioral Science, Earth Science, Computer/Math, and Engineering. Members of CRCST and other supporters serve as judges and every 7th and 8th grade project gets judged on the Tuesday afternoon. We pick the best project in each division and the students find out on the Thursday evening Award Ceremony.

Susan Clay serves as the CRCST Board Representative on the NEOSEF Board. She also is responsible in finding judges for the CRCST Awards. If you are interested in helping this year, contact her at suzieclay@aol.com or at 440-570-1155. Judging will be from 3:00 to 5:30 PM on Tuesday, March 12 and all judges are invited to a judges' reception at 5:30 PM. If you have a later release time in the day, still consider helping with the judges.

AKRON REGIONAL
SCIENCE OLYMPIAD



The
University
of Akron

The Akron Regional Science Olympiad tournament is Saturday March 9, 2019 at the University of Akron.

Science Olympiad is a national science competition for middle school and high school students. On Saturday, March 9, over 600 students from 6 surrounding counties will come to the University of Akron to compete in 46 contests of science, technology, engineering and math skills. The University is seeking volunteers for the day to help with supervising events, grading tests, evaluating or timing at constructed device events, score keeping and logistics.

We have volunteer positions for 2, 3 and 6-7 hour activities, doing timing, test grading, device inspection and logistics. We hope to provide lunch for each volunteer. We will provide personalized signed volunteer-hour certificates.

For information, please check this link: <http://uakron.edu/cpspe/agpa-k12outreach/science-olympiad/scienceolympiad-volunteers>

We would be delighted to have your help this year!

If you want to help, please register for an account (only takes a minute) and select a volunteer position from the list of events.

<https://statescioly.org/uakron/Volunteer/EventSignup/caaa8bb0-f36d-43e0-a6e4-1c9ab2ff6368>

Or send an email to arscioly@uakron.edu with your contact information.

A summary list of events can be found here: <https://www.soinc.org/bc-events>

Please register as soon as possible, and before March 2.

Thank you! We will contact you in a bit to confirm your choices. We welcome questions. Please email them to us.

Thank you!

John Fellenstein: jfellenstein@uakron.edu, llohrey@uakron.edu, arscioly@uakron.edu



Educator Resource Center

CLEVELAND MUSEUM OF NATURAL HISTORY

Over 30 years of supporting science education

www.cmnh.org/erc

2018-19 OPEN HOURS

Monday: 2-5 pm

Wednesday: 2-6 pm

Friday: 2 – 5pm

Saturday: 9 am – 1 pm

CLOSED: Sunday, Tuesday, & Thursday

SIZING UP THE SUN, MOON, & STARS

EARLY CHILDHOOD WORKSHOP

\$5 — Grades PreK-1

Wednesday, February 27, 2019 | Wednesday, April 10, 2019, 4:30–7:30pm

Register at <https://www.cmnh.org/educator-workshops>



Learn how to engage young learners with the Educator Resource Center's (ERC) brand new astronomy STREAMS (Science, Technology, Reading, Engineering, Arts, Math, and Social Studies) kit for the early childhood grades. Actively explore the Sun, Moon, and Stars through inquiry-based activities that target Ohio's Learning Standards. Strengthen your content knowledge by interacting with a Museum Astronomer in the Shafran Planetarium and Mueller Observatory. This workshop includes a FREE individual 1-year membership to the ERC! Dinner is included.

Step Up to Quality Approved!

OHIO MIDDLE LEVEL ASSOCIATION WORKSHOP

SPONSORED BY



FRIDAY, MARCH 4, 2019: 8:30AM–3:30PM

FREE! — Middle Grades

You are invited to the Ohio Middle Level Association (OMLA) Northeast Regional Conference on Friday, March 1, 2019 from 8:30am-3:30pm on Wade Oval for a full day of hands-on professional development! This AM/PM workshop will allow attendees to visit 2 museums and explore programming, interdisciplinary planning and how to tie the 4C's into the classroom. This event is FREE for OMLA individual and building members, or \$30 for each individual or \$175 for each building (up to 5 teachers). Please register via the link below by February 22, 2019 to secure a spot. Registration open to the first 150 people!

REGISTER NOW

(continued)

CONSERVATION EDUCATOR OF THE YEAR AWARD

The Cleveland Museum of Natural History recognizes an educator, either classroom teacher or naturalist from the Northeast Ohio area, during the Museum's annual Conservation Symposium held in September. The educator is honored for his or her efforts by excelling in conservation education and by bringing students together in a conservation project at their school or within their community.

The Conservation Education Awards Committee at the Museum is now accepting nominations, due by Friday, June 7, 2019, for the award to be presented during The Cleveland Museum of Natural History's Conservation Symposium, Friday, September 6, 2019. Educators may nominate themselves or be nominated by others and must have two letters of support. Nominees are judged on achievements or contributions toward conservation education within the school and/or community in Northeast Ohio.

<https://www.cmnh.org/conservation-educator-of-the-year>



2019 "Wonders of Plastics" Essay Contest

The Akron section of the Society of Plastics Engineers (SPE) is pleased to announce the 2019 "Wonders of Plastics" essay contest.

Eligibility

The contest is open to all middle/junior high and high school students. The essay must be sponsored by one of the students' teachers.

Prizes

First place high school essay - \$100

First place middle/junior high school essay - \$100

The sponsoring teacher of each winning essay will receive \$25

The winning essays will be printed in the Akron Section's Newsletter.

Topics to consider

Advantages of plastics in food packaging

Creative use of recycled plastics

How plastics benefit humankind

How plastics improve our lifestyle

Plastics in the environment

Plastics usefulness in society

What plastics have done for me

Why the bad reputation of plastics is wrong

Submit your Essay to

Polymer Engineering
The University of Akron
Attn: John Fellenstein
250 S. Forge St
Akron, OH 44325-0301

Questions may be directed to the Akron SPE Education Committee, attention: John Fellenstein by phone or email

Tel: 330-972-6334 | **Fax:** 330-972-2624

Email: jfellenstein@uakron.edu

Entry must be postmarked by February 28, 2019!

(continued)

REQUIREMENTS FOR SUBMISSION

General

Length:	Between 500 and 1,000 words
Format:	Typewritten in English on 8 ½ x 11 paper, title to appear as heading on each page; no name on any page except the entry form that must accompany each essay; 1-inch margins minimum on all sides
Authors:	The essay may be written individually or co-authored by two students
Deadline:	February 28, 2019 (postmarked)

Organization

The organization structure of the essay should be “logical,” including the following considerations:

Introduction:	Optional
Thesis:	Several sentences
Development:	This section should be several paragraphs and should discuss the theme, analyze it, feature informal research about the theme, etc.
Conclusion:	This section should be at least one paragraph in which the author summarizes the ideas presented in the essay

Mechanics

Spelling should be correct; syntax should be readable; punctuation should be conventional. Essay should be free of sentence fragments. Diction (word choice) should be appropriate to the subject and the writer’s understanding of the topic. Point of view should be appropriate to the topic/subject and remain constant and consistent. A mixture of first and third person is acceptable if it is appropriate to the voice of the essay. However, the use of second person (“you” either stated directly or implied) will change the “voice” of the essay in a manner damaging to its effectiveness. Footnotes and references must be included when necessary.

Judging

Essays will be judged by a panel. In order to be judged, the essay must meet all the conditions as stated in the organization and mechanics above, with only incidental errors in mechanics. The essay must also meet the assigned minimum length and must be submitted following the prescribed format.

(continued)

ENTRY FORM

Title: _____

By: _____
type or print*About the author(s)*Name(s) _____ age _____
_____ age _____

Grade in School _____

Address(es) _____

Phone Number(s) _____

E-mail(s) _____

About the school

School _____

Address _____

City/State/Zip _____

Phone/Fax _____

Teacher _____

Class _____

Submit your Essay toPolymer Engineering
The University of Akron
Attn: John Fellenstein
250 S. Forge St
Akron, OH 44325-0301**Tel:** 330-972-6334 | **Fax:** 330-972-2624**Email:** jfellenstein@uakron.edu*Entries must be postmarked by February 28th , 2019!*[Back to top](#)



Help Us Celebrate National Poetry Month - April 2019

cherry blossoms
a bee carries the future
on its legs

Steve Hodge
White Lake, Michigan



In honor of National Poetry Month, we are looking for short, simple, nature-themed poetry, inspired by springtime in the woods, that will be included on the Seasons of Haiku trail at the Arboretum. Your students' poems will follow haiku poems that have been featured on the trail by poets from around the world.

Submitted student poems can be in short haiku format or any other short form poetry. Fifteen student poems will be selected based on a variety of age/grade representation, poem style and content. Poems must be submitted by March 1, 2019. Poems that are not selected for the trail will be highlighted elsewhere. Details on submission are on our [website](#). Come out and experience our Winter Haiku in their natural habitat on our Woodland Trail. You can [read and listen](#) to one of them here. Contact [Sharon Graper](#) 440.602.3843 with any questions.

Teacher in Residence Program

An Enrichment Opportunity for Teachers

Holden Forests & Gardens announces the return of its Teacher in Residence Program. The Teacher in Residence will spend 10 days during the summer redeveloping an in-depth outdoor experience for the Holden Arboretum's Forest



Discovery and Pond Adaptations programs.

A stipend of \$1,600 will be awarded for this work. Teachers will also have the opportunity to bring their own classroom to the Arboretum for a visit during the 2019-20 school year free of charge. There is the possibility of one graduate credit hour of independent study if your school district approves. The cost is covered by Holden Forests & Gardens.

Qualifications: Currently be or have been a full-time teacher in any grade K-12 who has demonstrated an interest in hands-on science and a willingness to develop and share innovative approaches and techniques for teaching about plants.

Be able and willing to spend the equivalent of 10 days at The Holden Arboretum during the period of June-July, 2019 to develop the proposed programs.

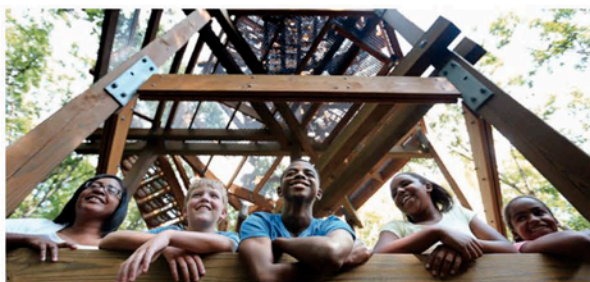
To Apply: Get more [information](#) or submit an [application](#). For questions contact [Sharon Graper](#), Director of Academics, 440.602.3843. Application deadline is April 1.

Forest Immersion XP A Career Exploratory Overnight for High School Students

WHERE: Holden Arboretum
and Red Oak Camp, Kirtland,
Ohio

WHEN: Begins - 8:30 am
Thursday, June 6, 2019; Ends
- 3 pm Friday, June 7, 2019

COST: \$50 (A limited number of need based scholarships are available.)



This fun overnight program allows high school students who love trees, forests and being outdoors an opportunity to explore and learn more about careers in arboriculture, community forestry and natural resources.

Day One: Learn why trees are important as you get to know other students with similar interests. A breakfast and morning session will be followed by a hike from Red Oak Camp to the Holden Arboretum. You can try out some basic climbing skills and other camp activities. End the day with a campfire before retiring to your heated cabin.

Day Two: Spend an active day learning what it takes to be a professional in the fields of arboriculture, community forestry and natural resources. Interact with climbers, plant health care professionals, urban foresters and those in conservation biology. Take home information will be provided.

[More information](#) is available. [Apply soon](#). Spots are limited. Contact [Sharon Graper](#), 440-602-3843 with questions.

Growing Students in Science Program

Accepting new schools for the 2019-2020 school year

The Holden Arboretum started a unique program in September 2003, Growing Students in Science: A Community Partnership to Build Interest and Ability in the Sciences. Students participate in the program for multiple years starting in the second or third grade and completing



the program in the fifth grade. Each year students participate in two field trips at the Holden Arboretum and one classroom visit by Holden staff. By providing natural science programming, in the classroom and outdoors, Holden is positively impacting students' interest and proficiency in the sciences. All programs are aligned with Ohio's science content standards.

Each year, teachers play an integral part in the Growing Students in Science (GSS) project, attending professional development workshops held throughout the year. The workshops provide them with tools to teach various aspects of the program to their students and provide additional activities to reach science standards. Kits of materials are supplied.

This specialized program accepts new school districts into the program every fall. There are a limited number of spots available. If you or your district are interested in improving your natural science focused curriculum look at the [Growing Students and Science page](#). Contact [Becky Thompson](#), Academic Programs Coordinator, 440.602.3852 if you have questions or to schedule a visit.



Our Mission: Advance and inspire a deeper understanding of plants to enhance life.

Our Vision: Vibrant green communities and diverse native forests of the Great Lakes region will flourish and sustain life.

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2019 Scholarship Program Information



Background

The purpose of the Akron Section of the Society of Plastics Engineers Scholarship Program is to promote knowledge in polymer science, engineering, and technology. Started in 1988, it has awarded over \$300,000 to area students. Preference is given to students enrolling in two- and four-year programs with a focus on plastics and polymers.

Scholarships up to \$3000 per year will be awarded and can be used for tuition, books, laboratory fees, and other educational costs necessary to earn a certificate or associate or baccalaureate degree in preparation for a career in polymers.

Scholarships Available

Goodyear Tire & Rubber Company
Rubbermaid
Kenneth L. Sharp Memorial Scholarship
Jim Steiner Memorial Scholarship
SPE - Akron Section
Special Merit Awards

Names of scholarship recipients will be distributed to donor companies for possible internship or cooperative programs. The number of scholarships awarded per year will vary according to the number of qualifying applicants.

First-time Applicants

Interested students from local high schools, technical, and vocational schools, and area colleges are encouraged to fill out the attached SPE Scholarship Application form, including the essay, references, and current transcript. Students are encouraged to discuss their interests in plastics.

All scholarships are awarded for one year with option for renewal. The awards are for full-time, undergraduate, students only. Co-op students are also eligible.

Renewal Applicants

Renewal Instructions:

1. Maintain a minimum **2.5/4.0** grade point average or equivalent.
2. Submit grade reports and course selections demonstrating polymer-related curriculum prior to start of next semester.
3. Apply for renewal scholarship using SPE application form. (References and essay are not required for renewal.)

Scholarship applications should be sent to:

Akron SPE
Attn: John Fellenstein
250 South Forge Street
Akron OH 44325-0301
OR
jfellenstein@uakron.edu
Deadline is March 18, 2019

Selection Criteria

1. Scholastic Achievement
2. Interest in a plastics career
3. Extracurricular activities
4. Financial need
5. Two letters of reference from instructors or supervisors. (to be included with application)

Residence within area covered by Akron SPE

2018 Award Recipients

Rubbermaid Scholarship

Walid Abuhashim
University of Akron

Ken Sharp Memorial Scholarship

Joseph Rizzo, Jr.
The Ohio State University

Goodyear Scholarship

Emma Harmon
University of Akron

Jim Steiner Memorial Scholarship

Gina Tubo
The University of Akron

SPE – Special Merit Scholarships

Nicolette Athans-*Ohio University*
Jack Bahmer
Tanner Brahler-*University of Akron*
Erin Christian-*Ohio State University*
Ean Hudspath-*University of Akron*
Carter Kuwatch-*University of Akron*
Kaila Oberhaus-*Ohio State University*
Connor O'Brien-*Virginia Polytechnic*
Steven Prexta-*Ohio State University*
Victor Vogt
Jasmine Walker-*Central State University*



Developing a sense of Wonder

Sharon Graper, *Manager of Formal Education*

Do your memories of childhood include climbing trees, throwing rocks in streams and picking dandelions to take to your mother? What about getting dirty, spying on ants and digging holes? These common childhood activities of the past are becoming less common for today's children. That is unfortunate for them and unfortunate for us. Richard Louv's best selling book *Last Child in the Woods* discusses the circumstances in today's world that keep children from getting outside and having these once common experiences. Parents are worried about safety, many people live far from "nature," and after school activities take up a great deal of time. It is unfortunate that children these days know more about the rain forest and deforestation than they do about tadpoles and native trees. We need to renew our efforts and find ways to provide experiences for today's children that will help them connect with nature.

This is important for several reasons. It is hard to have an interest in protecting something if you don't have some meaningful connection to it. Our children need to develop a connection to the natural world so they will have an interest in protecting it. Those who spend any time outdoors know that being in nature has the ability to sooth and nourish us. In our busy world we need to slow down. Children and adults benefit from a walk in the woods. We need to provide children with the opportunity to develop a sense of wonder about the natural world for their own health and the health of our environment.

So how does one accomplish this? Our lives are busy with school, work and all kinds of extra-curricular activities. It is easy to get kids to explore nature and it doesn't take a lot of stuff.

Whether you have a love of the outdoors, or you want to develop one with your child, all you need is to let them take the lead, find a location and dress appropriately. The first thing is finding a place. Your backyard is a good place to start. The Holden Arboretum is even better. You need to dress in something you don't mind getting dirty. Nothing spoils an adventure faster than a parent yelling "don't touch, stay on the path, you're getting your pants dirty, don't get your shoes wet." "Don't" often takes the fun right out of everything. Old shoes or even boots are better. Old pants and a jacket are musts. After you have the right clothes and you've chosen a spot the only other thing you need is some time and an unhurried attitude. You can't explore on a time table. The words "hurry up" are another adventure killer. Pick a path according to the time you have and age of your child.

There is nothing more powerful an adult can do for a child then to model curiosity. Dip in the pool yourself or draw a picture of something you found especially interesting. Collect your favorite leaf and take it home. We send a strong message to kids by what we do. Visit Holden or your local park some time to explore the natural world together. It will be time well spent.

Children these days know more about the rainforest and deforestation than they do about tadpoles and native trees.

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The LeBron James Family Foundation College of Education presents:



**OPEN
HOUSE**

***Come join us and learn about the new Urban STEM Center
and participate in hands-on STEM activities!***

Tuesday, February 19, 2019

4:00-7:00pm

Open House Playground

Think Tank to Shark Tank	Code Hopper/Girls Who Code
Integrating STEM in Literacy	Incorporating E in STEM with 3D printing
Developing Questions in Inquiry Based Teaching	Data Collection with Sensors
Math Teachers' Circle	FIRST LEGO League



Zook Hall 1st Floor
The University of Akron
302 E Buchtel Ave
Akron, OH 44325



Snacks and light refreshments will be provided.

For further information and parking details, please visit
www.uakron.edu/education/urban-stem or contact
Karen Plaster at kbp9@uakron.edu

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Educator Open House and Party for The Planet at Cleveland Metroparks Zoo – Saturday April 20th 2019

Join us for 2019's Educator Open House -- a FREE event for area educators and their families at the Zoo (up to 3 guests per registered educator) where we share educational resources and ideas and say THANK YOU for all you do for our students and communities! We are committed to continue offering you ways to educate and motivate the students in your classroom. We are also committed to conservation and advocacy as the Zoo continues to grow as a leader in global conservation efforts. This year, Educator Open House will highlight ways that we blend these important passions to enable opportunities for education through conservation action. Come and explore the ways that you can bring conservation action into your classroom -- directly helping wildlife and wild places while also addressing academic content standards and fostering unique classroom learning experiences. This year's event will feature all of your old favorite resources, along with new opportunities and innovative ideas:

- **Zoo Educational Programs Showcase** will feature information on all of our current program offerings for schools, groups and families; as well as information on booking a school visit and utilizing the Online Resource Library. Staff will be on hand to answer questions and help you decide which programs and resources are best for your students.
- **Conservation in the Classroom Mini Workshop: Education through Action** offers ideas, examples, and lesson plans for bringing conservation advocacy into your classroom. Learn how to capture student curiosity and shape it into meaningful conservation education and action. Mini Workshops are *for teachers only* and are 30 minutes in length (specific time for workshop coming soon). Pre-registration for this mini-workshop is required.
- **Free thank you gifts and chances to win prizes!**

The Zoo will also be hosting the annual Party for the Planet on this same day. Guests attending Educator Open House can also enjoy the Party for the Planet festivities as a part of this day. Music, DJs, live demonstrations, hands-on activities and booths throughout the Zoo promote conservation and celebration. Come for Educator Open House and stay to Party for the Planet!

<https://www.clevelandmetroparks.com/zoo/learn/educational-programs/educational-opportunities/educator-open-house>

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