

## Spring Speaker - Grace Wolf-Chase, Ph.D., Adler Planetarium

When: Wednesday, April 10, 2019, 6:00 PM

Where: Grand Rapids Community College, Calkins Science Center, Room 348

Please join us at GRCC and learn from Grace Wolf-Chase about how stars form. Her talk should be very interesting to the general public and especially to those who are from the science disciplines. Her talk is outlined below.

Since the 1970s, spectroscopy with radio and infrared telescopes has revealed the presence of hundreds of molecules in the interstellar medium, including many complex hydrocarbons. While these discoveries have enabled astrochemists to study the distribution, formation, and evolution of different molecular species under conditions vastly different from those found on Earth, they have also allowed astrophysicists to study the physical and dynamical properties that govern the formation of new stars and planetary systems. This talk will present some of the highlights along the road to developing our current picture of star formation from the discovery of Giant Molecular Clouds to recent contributions by citizen scientists who are helping us mine data from Galaxy-wide surveys.



trkendall.wordpress.com

Check out information on her background at: <https://www.careergirls.org/role-model/astronomer/>

Link to Grace's event:

<https://westernmichigan.sites.acs.org/apps/calendar/showEvent?callID=3868992&eventID=277242607&next=showMonth%3fcallID%3d3868992%26year%3d2019%26month%3d3>

Link to Grace's flyer: [https://westernmichigan.sites.acs.org/2019\\_GraceWolfChaseFlyer.pdf](https://westernmichigan.sites.acs.org/2019_GraceWolfChaseFlyer.pdf)

## West MI ACS Community Outreach



D. Vandenbrink (Gentex) and J. Krikke (GVSU)

Our section is involved in wide range of activities within the West Michigan community, with our largest event being National Chemistry Week. From my experience at Grand Valley I've learned that a number of my colleagues are also making presentations to area K-12 schools and clubs or organizations. Calvin College had a successful Project Seed program for a number of years. We would like to recognize the members who are doing Community Outreach and provide support to them as well as provide connections so that if you want assistance you know who you can reach. If you could send me an email at [winchesr@gvsu.edu](mailto:winchesr@gvsu.edu), I will compile this information and with your permission we will include it in the next newsletter. We will also include it in our annual report so that all of the great things we are doing get recognized.

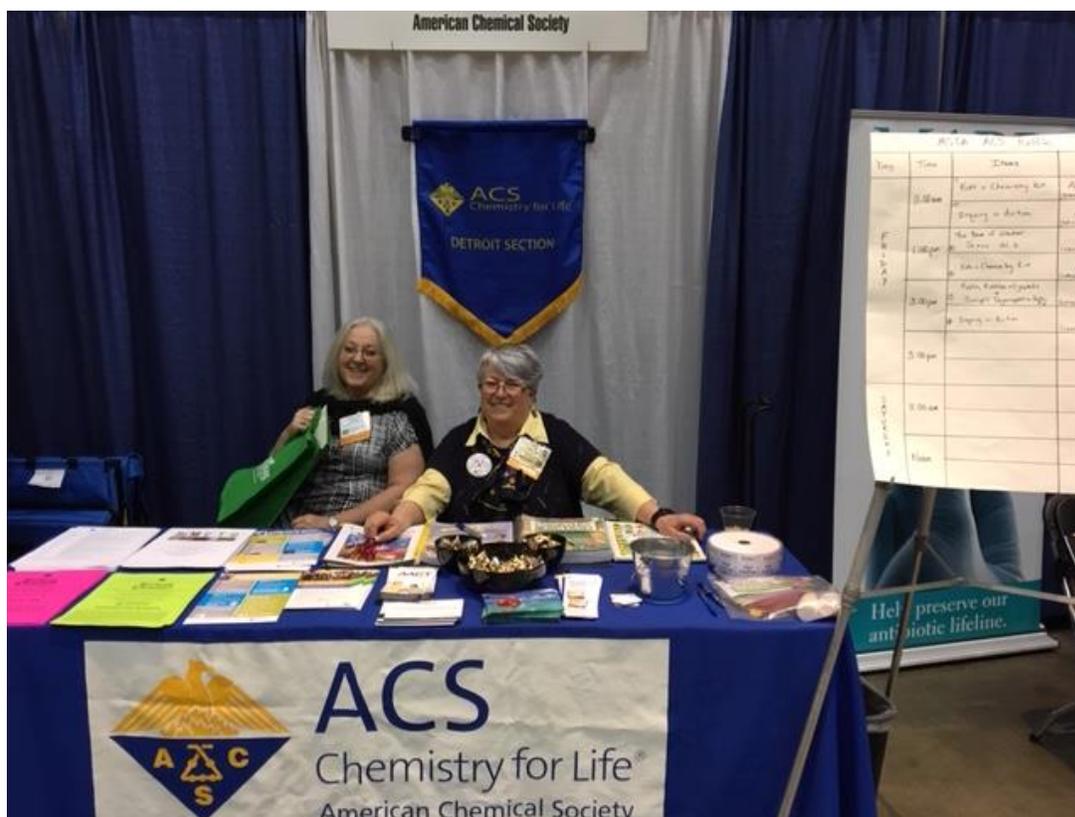
### Michigan Science Teachers Association (MTSA) Convention

When: Friday March 1, 9am-5pm and Saturday March 2nd 9am - 1 pm

Where: Amway Grand Plaza, Grand Rapids, Michigan

The Detroit section of the ACS has long sponsored a table at the Michigan Science Teachers Convention at which they gave out information on opportunities available to teachers through the ACS. This year because the meeting is being held in Grand Rapids the Detroit section reached out to the West Michigan ACS section and Kalamazoo sections asking if we would be interested in hosting the table. Luke Chadwick, chair of the Kalamazoo section and Senior Scientist at Bell's Brewery, responded "Let's Do It" and we agreed it was a great opportunity for the sections to partner and get involved with Michigan science teachers and for us to get the word out on our World's Largest Periodic Table event (see below).

We would like to have 1 or 2 volunteers from the West Michigan Section at the event for shifts at 9am - 1pm or 1pm - 5pm to help. There will be people there from Detroit to help, so do not worry about knowing what to do - they will help.



Kalamazoo section members Amy Martin and Kathy Kitzmann at MSTA, 2018

**CCEW (Chemists Celebrate Earth Week) Event:**

**2019 CCEW Illustrated Poem Contest**

The Western Michigan Local Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten through 12th grade.



**Contest Deadline: April 22<sup>nd</sup>, 2019**

**Prizes: \$25 gift card for winner in each age group. K-2<sup>nd</sup>, 3<sup>rd</sup>-5<sup>th</sup>, 6<sup>th</sup>-8<sup>th</sup>, 9<sup>th</sup>-12<sup>th</sup>.**

**Contact: Dalila Kovacs, GVSU attn. Chemistry Department/Dr. Kovacs, 1 Campus Drive, Allendale, MI 49401 or email to: [kovacsd@gvsu.edu](mailto:kovacsd@gvsu.edu)**

Winners of the Western Michigan ACS Local Section's Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win prizes!

Write and illustrate a poem using the CCEW theme, "**Take Note: The Chemistry of Paper.**" Your poem must be no more than 40 words and in the following styles to be considered:

**HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE**

**Possible topics related to paper chemistry include:**

Bioplastics	Cellulose	Fiber	Lignin
Plastic	Polymer Pulp	Slurry	

**Entries will be judged based upon:**

Artistic Merit - use of color, quality of drawing, design & layout  
Poem Message - fun, motivational, inspiring about yearly theme  
Originality Creativity - unique, clever and/or creative design  
Neatness - free of spelling and grammatical errors

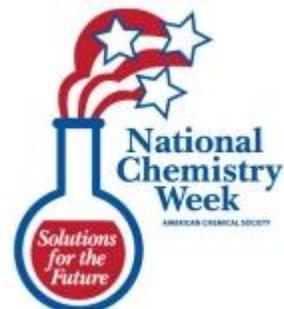
**Contest rules:**

- All poems must be no more than 40 words, and in one of the following styles to be considered: Haiku, Limerick, Ode, ABC poem, Free verse, End rhyme, and Blank verse.
- Entries are judged based upon relevance to and incorporation of the NCW theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.
- All entries must be original works without aid from others. Poems may be submitted by hand on an unlined sheet of paper not larger than 11" by 14" or scanned and sent via email. Illustrations may be created using crayons, watercolors, and other types of paint, colored pencils, or markers. The illustration may also be electronically created by using a digital painting and drawing app on a computer, tablet, or mobile device.
- The text of the poem should be easy to read and may be typed before the hand-drawn or digital illustration is added, or the poem may be written on lined paper, which is cut out and pasted onto the unlined paper with the illustration.
- No clipart or unoriginal images can be used.
- Only one entry per student will be accepted; all entries must include an entry form. If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form.
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners' names, likenesses, and entries for editorial, advertising, and publicity purposes.



## National Chemistry Week 2019 at GVSU Kelly Family Sports Center – October 19

The Western Michigan Chapter of the ACS will celebrate National Chemistry Week (NCW) this year at Grand Valley State University in the Kelly family sports center on October 19th. The theme for NCW is **Marvelous Metals**. There will be a demo show organized by Jim Krikke, 16 tables with hands on activities, a college poster display organized by Shannon Biros ([biross@gvsu.edu](mailto:biross@gvsu.edu)) and a K-12 illustrated poster contest organized by Britt Price ([pricebr1@gvsu.edu](mailto:pricebr1@gvsu.edu)).



We are also celebrating the **150<sup>th</sup> anniversary of the Periodic Table**. As part of this outreach event we hope to make the world's largest periodic table and have submitted an application to the *Guinness World Records* book. Schools, groups, and local companies are each making huge representations of elements found on the periodic table. When assembled on the Sports Center floor, they will make a Periodic Table as large as the football field.

**Help out by choosing an element from the periodic table and making a representation of it.** We are asking groups to complete and return the elements by April so, we know if there are any elements left to complete. If you would like to make one, check the ACS website (<https://westernmichigan.sites.acs.org/intyperiodictable.htm>) to see what is left. To date 60 of the 118 are taken. Doug Ragan, Sue West and Deanna Cullen are helping recruit schools for the event.

**Detailed instructions for creating your element are on the last two pages of this newsletter.**

**Volunteers needed:** We will be asking for many volunteers for the event when it gets closer. To volunteer to help out at the event please contact Michelle DeWitt ([dewittmi@gvsu.edu](mailto:dewittmi@gvsu.edu)).

If anyone would like to volunteer to help with the ACS poster booth (free T-Shirt for all volunteers) please let Britt Price ([pricebr1@gvsu.edu](mailto:pricebr1@gvsu.edu)) know by October 1st with your shirt size.

Also please contact Michelle if you wish to host a booth for your school or business. If you are hosting a booth let Michelle know a total number of T-shirts and sizes by October 1st.

Also, you can keep informed by responding to the event on Facebook:  
<https://www.facebook.com/events/2261489874120479/>.

## Undergraduate Research Poster Presentation – October 19, 2019

### Location: GVSU Kelly Family Sports Center

In conjunction with National Chemistry Week, the Western Michigan ACS is also hosting a research poster presentation for undergraduate students from our section.

If you wish to display a research poster, please contact Shannon Biros ([biross@gvsu.edu](mailto:biross@gvsu.edu)).



# World's Largest Periodic Table



Western Michigan ACS and GVSU Chemistry Department are looking for groups to help make the world's largest Periodic Table to celebrate the 150<sup>th</sup> anniversary of the periodic table in 2019. To accomplish this, we must start NOW and we need YOUR help! Each element will be 216 inches across and 162 inches tall. This will make a Periodic Table that is 120 yards long by 53.3 yards tall, almost the size of a football field.

We will put all elements together on October 19, 2019 for 2019 National Chemistry Week Event held 10am-2pm at GVSU Kelly Family Sports Center

<https://www.gvsu.edu/sportsfacilities/the-kelly-family-sports-center-6.htm>

This event will be FREE and open to the public. We are competing for the Guinness World Record. With your help to set up starting at 10am, we plan on having the periodic table completely set up at noon and then take a group picture.

Measurements:

- Atomic Number (top left): 40 inches tall by 20-30 wide.
- Element Name (bottom left): 20 inches tall by 90-130 inches wide
- Element Symbol (center): 100-120 inches wide by 120-130 inches tall.
- Atomic Weight (bottom right): 40 inches wide by 20 inches tall.

Reminders: Please leave a 6-inch border. Get creative in colors and style! Sign your element in top right corner with names/logo of your group. You can also add pictures of your element or facts about it. It is recommended to be made by hot gluing 6 rectangular plastic disposable table cloths together.

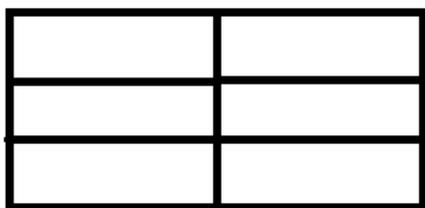
Elements are due back to Michelle DeWitt by April 1<sup>st</sup>, 2019

IF INTERESTED:

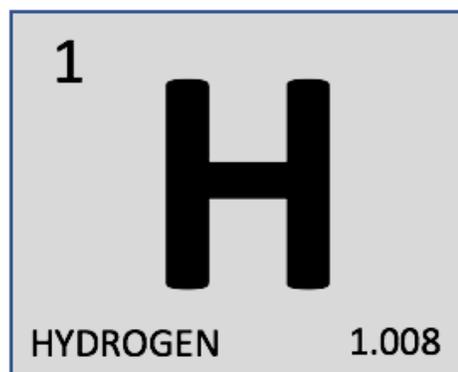
Email Michelle at [dewittmi@gvsu.edu](mailto:dewittmi@gvsu.edu) to claim your element.

GVSU Attn: 378 Padnos

1 Campus Drive, Allendale Drive 49401



Layout for tablecloths



Example of Element

Some suggestions:

The table cloths are available on Amazon or at Gordon Foods for less than \$2 each (you need 6). Also, we have tried sharpies, spray paint and acrylic paint and the Acrylic (about \$1 at Michaels) works the best. The paint is also available on Amazon just a little more expensive. I am ok with any color table cloths or paint just make sure it can be seen from far away.

Please take a couple of pictures of your group working on it as I would like to include a video of the making of the table to the event.

Please get back with me with a list of names of who worked on it.

Let me know when you are done.

I am collecting them all by April and will then work on what is missing.

Look for event page on Facebook soon and ACS Western Michigan section webpage.

Let me know if you know of any schools or other groups that would like an element. First come first served for choosing elements.

I look forward to seeing them all together at the GVSU Allendale Kelly family Sports center on October 19<sup>th</sup> 2019, where we will celebrate National Chemistry Week in style as we always do and celebrate the 150<sup>th</sup> anniversary of the Periodic table.

Thank you Everyone !!!!! This project will take many volunteers to make happen. I can't believe how quickly people across sciences and though out the community are getting excited and signing up.

Our application has been submitted to the Guinness book of world records.

**Stay up to date by visiting our website at <https://westernmichigan.sites.acs.org>**

Items for the Newsletter may be submitted to James Krikke (GVSU) at [krikkeji@gvsu.edu](mailto:krikkeji@gvsu.edu)