

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

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2020 Midland Section ACS Officers and Board of Directors Election

Michelle Cummings, Chair, Nominations and Elections Committee



Electronic voting to elect the Midland Section ACS 2020 Officers and Board of Directors is now open. You may access the electronic ballot by clicking on the following link: <https://www.surveymonkey.com/r/GN5GLHF>.

Note: Each Midland Section ACS member may only vote once. By entering a member number and submitting this ballot, you are certifying under penalty of fraud that the input member number is your member number, and that you are voting freely and on your own behalf.

In order to vote, you must be a member or associate member in good standing with the ACS. Affiliate members are ineligible to vote according to National ACS bylaws.

Vote for the candidate of your choice, selecting one for each Officer position, and three for the Director positions. Click "Submit" on the bottom of the very last page of the SurveyMonkey ballot to cast your vote.

Your member number is for verification of voter eligibility only, and will be removed from each ballot prior to the counting of votes in order to ensure voter anonymity. Your ACS member number is located on your

membership card and on the mailing label of your copy of *Chemical & Engineering News*. Your membership number will be either the first seven or eight digits on your mailing label, invoice, or receipt.

If you have trouble finding your member number or encounter any other difficulty in voting, please contact Michelle Cummings (Chair of Nominations and Elections, 2019) at michelle.cummings@dow.com or Amanda Palumbo (Midland Section ACS Chair, 2019) at amanda.palumbo@dow.com.

Please note that voting ends on **November 11, 2018** (Monday) at 11:59 PM EST.

Editor's note: The full roster of 2020 Officer and Board of Directors election candidates and their profile information is available for viewing in the [October 2019 issue](#) of *The Midland Chemist*. Just click on the link and scroll down to page 3 of the October issue.

It's a Wrap: Celebration of the 80th Anniversary of the Original US Patent for Saran, November 10
Gina Malczewski, Centennial Committee, Midland Section ACS

JOIN US for
"It's a WRAP!"
A Celebration of the
80th anniversary of the original
US Patent (2,160,931) for SARAN

One of the four products featured at the
Midland ACS Centennial Exhibit

Doan History Center
3417 W. Main St
1-2 pm November 10, 2019
FREE!

Experiments, fun and art
using plastic films...
PRIZES!!
Recommended for ages 10 and up

You can save a seat by contacting
Gina Malczewski
reginamalczewski@gmail.com

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DEVELOPED!
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keep food fresh far longer.
everything you wrap!

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like magic!

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MSU St. Andrews Astronomy Day: Observe the Transit of Mercury, November 11
Melanie Kauffman, Senior Communications Manager, Michigan State University

Did you know that the planet Mercury will cross the sun's disc on the morning of November 11? And that Mercury hasn't done that since 2016? More importantly, are you aware that the next transit of Mercury visible from North America doesn't happen until the year 2049?

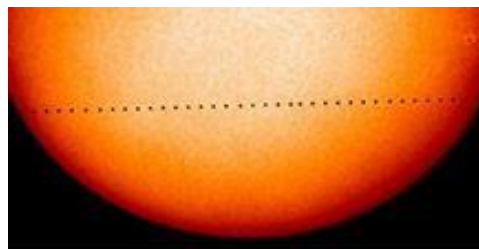


Photo at right courtesy of NASA public image library.

Mercury will spend the morning moving across the face of the sun. Viewing this event requires a telescope and a special solar filter. MSU St. Andrews has several large telescopes properly equipped for solar viewing. We will also have a telescope set up to project the image of the sun onto a board for group viewing. In addition, an informative and interactive presentation on transits, roughly 15 minutes duration, will be offered periodically, whenever guests would like. We will also offer a live feed from professional observatories on large video screens for the duration of the transit. So, even if it's raining or snowing, come anyway!

Monday, November 11, stop in anytime between 8:00 AM and 1:00 PM, [MSU St. Andrews](#), 1910 West Saint Andrews Road, Midland, MI. No registration is necessary. Free event! Please [email us](#) if you would like to bring a group!

Don't miss this unique opportunity! Join us rain or shine. We will live stream the event on our big screens all morning, and also observe through our telescopes with special filters so that we can safely view the sun. *Never look at the sun with binoculars or a telescope that does not have a solar filter. Blindness could result!*

Periodic presentations and live online viewing on the big screens inside our facility will occur between the hours of 8:00 AM to 1:00 PM – rain or shine. If the skies are clear, we will observe the transit with our own telescopes, using special solar filters! The public is invited to this unusual daytime astronomy event. Field trips are encouraged – please let us know if you are bringing a group – otherwise registration is not necessary.

Approximate timeline:

- 7:30 AM to 1:00 PM: Live feed from professional observatories on a large video screen. Interactive presentations on Mercury and transits whenever guests desire.
- 7:35 AM: Mercury begins to transit the face of the sun. We will have live feed from professional observatories in the MSU St. Andrews rotunda for the duration of the transit. You can be here to see the first moment! Since sunrise is at 7:27 AM, the sun will be behind the trees and not yet visible with our own telescopes.
- 10:00 AM: At about this time, the sun will begin to rise above the trees, and we will be able to watch the transit with our own solar-filtered telescopes.
- 1:04 PM: Mercury leaves the sun's face behind, and the transit is over.

President Trump Renews the Presidential Science Advisory Board, Dow's A.N. Sreeram Named Among the Board Members

Steve Keinath, Co-Editor, The Midland Chemist

Editor's note: This article is reprinted, in part, from a policy news item that appeared in a recent issue of *Chemical & Engineering News* (October 28, 2019, Volume 97, Issue 42, page 17). Andrea Widener, *C&EN* Senior Editor for Policy, authored the original article.

A presidential science advisory board that has been defunct since the beginning of the Donald J. Trump administration is getting a new lease on life. Trump announced on October 22, 2019 that he is reconstituting the President's Council of Advisors on Science and Technology (PCAST), which is designed to give the White House guidance about science and technology issues facing the country.

University of California, Berkeley, chemistry professor K. Birgitta Whaley, an expert in quantum computing, is among the seven board members named so far. **A.N. Sreeram** (photo at right), vice president and chief technology officer at Dow, was also named to the board, along with executives from several other companies, including SC Johnson, IBM, and Cyclo Therapeutics. Nine additional members of the 16-member board have yet to be announced.



(Photo at right courtesy of [Dow corporate website](#))

MSU St. Andrews Lecture: Very Clean Water for Those Who Live on \$2 a Day, November 14

Melanie Kauffman, Senior Communications Manager, Michigan State University

Please join us for an afternoon lecture on clean water technology and the accompanying global outreach being conducted through Aqua Clara International. Thursday, November 14, 4:00 PM, MSU St. Andrews, 1910 West Saint Andrews Road, Midland, MI.

Our special guest speaker is **Harry J. Knopke**, Ph.D. (photo at right), President, Aqua Clara International; President Emeritus, Aquinas College; and CEO, the Safe Water Institute.



Aqua Clara International provides technology-based solutions to treat contaminated water worldwide. Knopke joined Aqua Clara in 2010, bringing his years of management and administrative experience, along with his work in medical education, the sciences, and the Safe Water Institute, to direct and help expand Aqua Clara's impact.

Aqua Clara is located at the Michigan State University **Bioeconomy Institute** in Holland, MI, where Knopke works with engineers and technicians to develop emerging and inexpensive clean water technologies that rely on no moving parts, require no electricity, and are built with 90-100 percent local materials and installed by local entrepreneurs. Their model relies on varying technologies to create clean water for others, including a biosand filter that can be built for \$40 or less and is suitable for a home, along with "hollow membrane" options that can render up to 10,000 liters of bacteria-free water a day.

Please note: If you can't join us in person, you can participate online via Zoom using the following link: <https://msu.zoom.us/j/296865408>. No registration is necessary.

A Century of Science and Service
1919-2019
MIDLAND
SECTION
AMERICAN CHEMICAL SOCIETY

Commemorating the Centennial of the Midland Section of the American Chemical Society and the local and global impact of its members.

Featuring topical videos, artifacts and interactive elements that highlight chemistry and the 150th anniversary of the Periodic Table.

Go to our website for more information, and details about **FREE PROGRAMS**.
www.midlandacs100.org

100th ANNIVERSARY EXHIBIT

Herbert D. Doan Midland County History Center
3417 W Main St, Midland, MI 48640
Weekdays 9-5, most weekends 12-4

Open now through the end of 2019

Gina Malczewski, Centennial Committee, Midland Section ACS

The exhibit holds all kinds of important and interesting information, and there are interactive activities. As an added incentive to help you check it all out, **we will enter the first 25 people who send an e-mail with answers to the following questions to reginamalczewski@gmail.com (Centennial committee members are ineligible) in a drawing to win a \$25 Gratzi gift certificate!**

Please answer the following and tell us **where in the exhibit** you saw the answer:

1. What percentage of the human body is hydrogen?
2. What “number” is Ogden Pierce?
3. What happened on April 8, 1946?

In addition, there are **puzzle pages** and instructions for a longer **scavenger hunt** while you are at the exhibit, with prizes associated with both activities. There are also winning possibilities for visiting and giving electronic feedback (see the QR code at the Doan History Center). Good luck!

For any questions about the Centennial Exhibit, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.

Countdown at the Centennial Exhibit: Recent Successful Events and More to Come!

Gina Malczewski, Centennial Committee, Midland Section ACS

The month of October saw two successful events at the Doan History Center housing our centennial exhibit. A Silver Circle lunch on October 8 featuring a talk on oral histories by CMU Professor Jay Martin and the showing of a long-lost film on the life and influence of Herbert H. Dow provided great encouragement for seniors to visit the space.

In addition, on October 27, our Halloween/National Chemistry Week event (Theme: “Marvelous Metals”) provided seven hands-on science stations with activities highlighting conductivity, batteries, solar silicon, nitinol, electroplating, and magnets, as well as candy stations for alternative trick or treating, tarantulas (yes, live tarantulas), and a craft table.



Kevin Wier (photo at left) helps a visitor at the “Marvelous Metals” conductivity station (Photo courtesy of Gina Malczewski)



Cassie Hale and Jim Tonge (photo at right) at the battery and electroplating stations (Photo courtesy of Gina Malczewski)

Many of our volunteers and attendees were in costume, and took the opportunity to visit our photo booth to record the moment. Dave Stickles manned (and explained) a pumpkin-tossing trebuchet outside the Doan History Center, made and donated by Max Dehtiar. In addition, a “Haunted Mine” offered “treasure” in spooky black-lit crevices featuring “copper, silver, nickel, platinum, and gold” coins (some real and some

chocolate), as well as some slime and other surprises. About 200 people attended the Halloween/National Chemistry Week event.

Lacey Brisette (photo at right) shows off her real (yes, real live) tarantulas at the Halloween/National Chemistry Week event (Photo courtesy of Gina Malczewski)

The centennial exhibit will be open at the Herbert D. Doan Midland County History Center through December. Sam Kean was featured at a book-signing event at the Doan History Center on November 5, and smaller group hands-on science events are planned there for November 10 and December 15.

Group visits with a docent have been and can still be arranged by contacting Gina Malczewski at reginamalczewski@gmail.com. Details about the centennial exhibit hours can always be found on the left bar of our website homepage at www.midlandacs.org. For any questions about the Centennial Exhibit, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.



The Midland ACS Garden: Past, Present, and Looking Forward **Gina Malczewski, Outreach Committee, Midland Section ACS**

In 2015, with a sustainability grant from the National ACS and permission from Creative 360, the Midland Section ACS Outreach Committee built a greenhouse of recycled bottles at the Midland community garden on Bayliss Street behind the Creative 360 building. This greenhouse has demonstrated multiple forms of gardening in a small space, from topsy-turvy tomato plants and stacked beds, to hydroponics. Solar panels have been used to run a water pump for the latter, and also an aerator for a vermiculture unit (to produce worm waste for fertilizer) in the greenhouse.



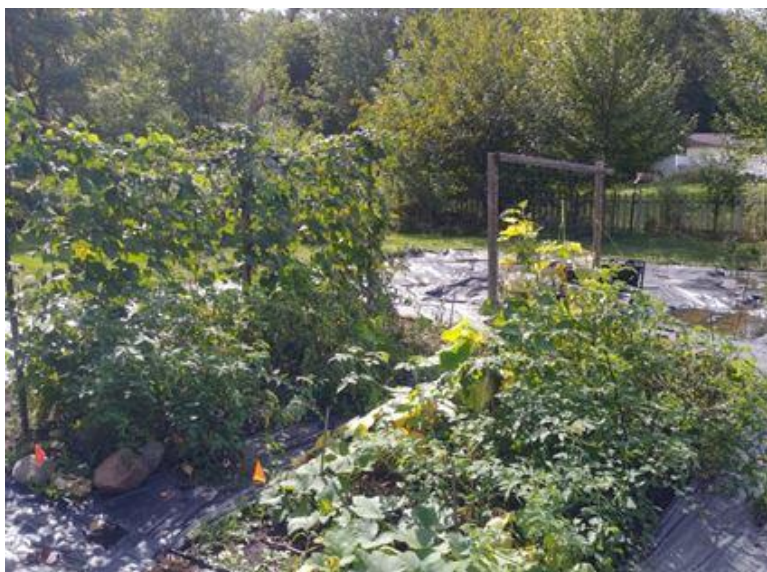
As it turns out, the Midland ACS has also been the most consistent and prolific tenant at the community garden space outside of the greenhouse in the ensuing years. Inconsistent garden management, poor publicity, and the frustration of other gardeners with deer and weather issues sometimes made us the only user to garden the full season there.

Some produce (photo at left) from the Midland ACS garden (Photo courtesy of Gina Malczewski)

Through the end of 2018, the Midland Section of the ACS had donated about 1,000 lb of produce from the garden and greenhouse to local food pantries, and also to culinary programs in the area. Our efforts have also been recognized with two sustainability awards from the National ACS.

Midland ACS garden plots (photo at right) in September 2019 (Photo courtesy of Gina Malczewski)

2019 has been another “growth” year in many ways. Creative 360 offered the management of the garden to me, and with some help from other local Master Gardeners, I took it on. We had a total of four participants who tended the gardens the whole season this year.



The Midland ACS garden had nine plots (some plants were donated) plus the greenhouse. The multi-stage compost piles were re-started and we were fortunate to get coffee and tea grounds from Coffee Chaos and The Grove, respectively, to assist with that effort. All of the garden paths were covered with black plastic as a result of expert advice, and the general weed population was greatly reduced.

Community interest in the garden is increasing due to Master Gardener meetings at Creative 360, and the improved look of the space. To date this year (despite a late start due to CERM), we have donated about 280 lb of produce (some of it “in kind”), and there are still a few frost-hardy (and greenhouse) plants that are bearing.

Thanks to the efforts of all of those who established the greenhouse, and continuing assistance from my sons (who help till all of the plots) and Kyle Krauseneck, the Midland Section ACS garden and greenhouse continue to provide the Midland community with fresh vegetables. We also grow herbs that are dried and donated.

I look forward to even greater participation in 2020. Those interested in a garden plot at Creative 360 (at minimal charge, and the water is provided free) should watch for more information coming along next April.

For any questions or more information about the Midland ACS garden, contact Gina Malczewski at reginamalczewski@gmail.com.

What I Learned with Susan Butts

Steve Keinath, Co-Editor, *The Midland Chemist*

Editor's note: The following article is reprinted, in part, from the August 1, 2019 issue of *Industry Matters Newsletter*, an online publication of the American Chemical Society, and based on an interview with Susan for that particular issue. Susan Butts is President of Susan B. Butts Consulting. Susan is a longstanding, 40-plus year member of the ACS. She is also a Fellow of the American Chemical Society (Class of 2018).



Susan Butts, President, Susan B. Butts Consulting (photo at left)

Susan Butts is an active member of the science and technology policy community following her 31-year career in the chemical industry and related organizations. Currently, she is President of Susan B. Butts Consulting. Previously she served as president of the Council for Chemical Research (CCR).

Before joining CCR, she worked for The Dow Chemical Company for three decades in various positions in R&D including a stint in Washington, D.C. where she worked on issues related to science policy and government funding for R&D in her role as Senior Director of External Science & Technology Programs. She is a Fellow of the American Chemical Society and of American Association for the Advancement of Science.

Susan holds a B.S. degree in chemistry from the University of Michigan and a Ph.D. in chemistry from Northwestern University.

How has the work environment for female industry chemists evolved since the time you started at Dow in the early 80s?

I wish that I had a more encouraging answer to this question. While there is much less overt discrimination in the workplace today there is still too much inherent bias that is evident in the gender disparity in technical and management positions.

Over the last two decades women have received between 30-40% of all doctorates in chemistry awarded by US universities, yet their representation in leadership roles in industry is far below that level. While things are better for women in the chemistry enterprise today, there is still a long way to go to reach true equality of opportunity.

What are the non-technical skills that helped you most throughout your career in industry? Which ones should early career chemists focus on?

I spent many years in research management at Dow, and it became apparent that good technical skills are necessary but not sufficient for industrial chemists to succeed. I would put effective teamwork and communication at the top of the list of critical non-technical skills.

Industrial chemistry is a collaborative effort not a solo endeavor. Companies are focused on outcomes like product sales, so they usually won't support research that is interesting, even publishable, if it doesn't have the potential to lead to new sales.

Discovering, developing, and manufacturing new products require many different areas of expertise so chemists need to work effectively with other scientists, engineers, safety and design experts, marketing specialists, and even customers in order to get a product to market. Trying to do "your piece" in isolation is counterproductive. This can be a difficult adjustment for a new graduate who has come from an academic environment where the focus is on individual achievement.

As I progressed through my career I discovered that I enjoyed working with people more than working in the lab, so I then developed my skills in leadership, management, and public speaking. These skills helped me when I moved to Washington, D.C. to work on science and technology policy for Dow.

At some point, you decided to pursue a Ph.D. What went through your mind at the time? And how does the decision look to you in retrospect?

I had the benefit of great mentoring from several chemistry professors at the University of Michigan, where I earned my bachelor's degree. I indicated an interest in doing research, and they encouraged me to pursue a doctorate in chemistry. This took me by surprise because it seemed like an ambitious undertaking. I asked if I should just enter the graduate program at Michigan, but they suggested that I should expand my connections by looking at the opportunities in inorganic chemistry (my area of interest) offered by many of the other great research universities.

I followed their advice and decided to go to Northwestern University, which had an outstanding program in inorganic chemistry. In retrospect, this was a life-changing decision that I would not have made but for the wise counsel from my professors about broadening my horizons rather than taking the easiest path. Getting a doctorate opened many doors for me at a time when few women had the opportunity to have a career in scientific research.

How would you assess the career opportunities confronting recent chemistry graduates compared to those that greeted you upon graduation from Northwestern University?

I was fortunate to graduate at a time when jobs were plentiful, and there were clearly-defined paths to finding employment in academia or industry. My colleagues who chose an academic career sought postdoctoral positions that would enhance their resumes. I decided that I wanted a career in industry, so I signed up for on-campus interviews with recruiters from the top chemical companies.

I received great coaching from my thesis advisor (Professor Duward Shriver) about how to interview and how to present a good seminar about my thesis research. The recruiting interviews led to invitations for company site visits which led to job offers. The process was clear and pretty straight forward.

Today, the situation is quite different. Jobs seem less plentiful and career paths are more numerous and varied, including many "non-traditional" options. There are many ways to approach potential employers through networking, social media, job fairs, and on-line applications, in addition to the recruiting process that I went through.

It is hard to know what the job options are or which approach is most likely to pay off with a particular employer unless you can get information from friends who have recently been through the process.

You have spent countless hours volunteering for the chemistry enterprise in a number of roles. What motivates you to do so?

I am most motivated by the hope that my work will make a difference for our community. I first became engaged with science and technology policy in Washington when I was leading Dow's Cooperative Research program. I was dismayed to see how long it took to get sponsored research programs started with university faculty, which caused frustration and missed opportunities on both sides. I soon realized that most of the delay was caused by contentious negotiations over control of intellectual property which might result from the research that Dow was paying for.

Although many of my industry colleagues told me not to waste my time on what they felt was an intractable problem, I believed that both companies and universities would be better off if this barrier to research collaboration could be lowered. This led me to take on many roles including co-chairing a project on this topic for the Government-University-Industry Roundtable in the National Academies and helping to found – and subsequently lead – the University-Industry Demonstration Project (UIDP) which is still, more than 10 years later, improving and strengthening research collaborations between companies and universities. These experiences taught me that dedicated and sustained efforts can produce progress, even on tough issues.

How did your parents influence your leadership style?

My father was a quiet person but a strong leader by example. He never shied away from difficult tasks and was always the first to take on more than his share of hard work. My mother was a very creative and articulate person and a powerful leader through inspiration. She drew on her experience to determine what was needed and then motivated others by describing her vision of what was possible. I have tried to incorporate the best of both of them in my own leadership style.

You were recently named an ACS Fellow. What did that mean to you?

I was very honored to receive this recognition from the ACS. I have been active in ACS governance at the national level for almost 20 years, including chairing the Committee on Chemistry and Public Affairs, serving on two other committees (Corporation Associates and International Activities), chairing the Working Group on Immigration and Work Visas, and serving on the Development Advisory Board and two Presidential Taskforces. It was gratifying to know that these contributions were valued by the ACS. To me, being selected as an ACS Fellow is the most meaningful way for the ACS to express its thanks for the work done by its many dedicated volunteers.

You have spent some time living at the Watergate in Washington, D.C. Any problems regarding break-ins that you would like to report?

There are no recent break-ins to report but there are always interesting things going on at the Watergate. I have had a home in Michigan for 40 years and an apartment in Washington for 13 years. There is quite a contrast between the two lifestyles!

At the Watergate, my neighbors have included a Supreme Court justice, an opera star, several cabinet secretaries and senators, and even a few distinguished scientists. I never know who I may encounter on the elevator. My neighbors in Michigan are every bit as nice, but I don't see them on the evening news.

Sidney Harris Cartoon

Submitted by Jeff Seeman, Department of Chemistry, University of Richmond

Editor's note: The Division of the History of Chemistry has received an ACS Innovative Grant that will provide 12 free Sidney Harris cartoons to ACS local sections for their use in newsletters or monthly communications or on their website.



The Pasteur cartoon can be commented on in a humorous way with the help of a French popular poet, Jacques Prévert. In this cartoon, Pasteur recites a nonsensical/humorous series of items. This is also what French popular poet Jacques Prévert did in his poem *Inventaire (Inventory)*, where at the end of each incongruous list of entities, Prévert adds "un raton laveur", "a raccoon!" When someone utters a nonsensical list of unrelated items, one may add ironically (and may not be so kindly) "et un raton laveur," "and a raccoon!" So, I would have added to Pasteur's (and cartoonist Sidney Harris's) list: "and a raccoon!"

By the way, for those of you who may be interested, you can hear Jacques Prévert live at https://www.youtube.com/watch?v=cU2JEC_e-mc.

— Jean-Marie Lehn, Université de Strasbourg (1987 Nobel Prize)

Editor's note: The French and English language versions of Jacques Prévert's poem *Inventaire* (*Inventory*) is reprinted here.

Inventaire by Jacques Prévert

Une pierre
deux maisons
trois ruines
quatre fossoyeurs
un jardin
des fleurs

un raton laveur

une douzaine d'huîtres un citron un pain
un rayon de soleil
une lame de fond
six musiciens
une porte avec son paillasson
un monsieur décoré de la légion d'honneur

un autre raton laveur

Etc., etc., ...

Inventory by Jacques Prévert

A stone
two houses
three ruins
four gravediggers
a garden
flowers

a raccoon

a dozen oysters a lemon a loaf
a ray of sunshine
a bottom slide
six musicians
a door with his doormat
a gentleman decorated with the legion of honor

another raccoon

Etc., etc., ...

Upcoming Dates, Events, and Other Updates

- November 4 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- November 10 (1:00 – 2:00 PM) – 2019 Midland Section ACS Centennial Exhibit program, *It's a Wrap – The Science of Saran™ and Plastic Films, A Celebration of the 80th Anniversary of the Original US Patent for Saran™*. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.
- November 11 (8:00 AM – 1:00 PM) – MSU St. Andrews Astronomy Day: *Observe the Transit of Mercury*, MSU St. Andrews, 1910 West Saint Andrews Road, Midland. Stop in anytime between 8:00 AM to 1:00 PM, no registration is required, free event. Live feed from professional observatories, onsite viewing (weather permitting) with MSU St. Andrews telescopes equipped with special solar filters, and interactive presentations on Mercury and transits whenever guests desire. For questions or more information, please contact Melanie Kauffman at kauffm59@msu.edu.
- November 11 (11:59 PM EST) – **Deadline for election of 2020 Midland Section ACS Officers and Board of Directors.**
- November 14 (4:00 PM) – MSU St. Andrews Lecture: *Very Clean Water for Those Who Live on \$2 a Day*. Special guest speaker: Harry J. Knopke, President, Aqua Clara International. Location: MSU St. Andrews, 1910 West Saint Andrews Road, Midland. If you can't join us in person, you can also participate via Zoom (<https://msu.zoom.us/j/296865408>). Free event, open to the public, no registration is necessary. For questions or more information, please contact Melanie Kauffman at kauffm59@msu.edu.

- December 2 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- December 15 (Save the Date) – 2019 Midland Section ACS Centennial Exhibit program, *Christmas Chemistry and Crafts*, Herbert D. Doan Midland County History Center, Midland. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.
- January 6 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- February 3 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- March 2 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- March 22 – 26, 2020 (Save the Date) – Spring 2020 National ACS Meeting & Exposition, Philadelphia, PA. Meeting theme – *Macromolecular Chemistry: The Second Century*. For more information, and to submit an abstract, please see <https://www.acs.org/content/acs/en/meetings/national-meeting/abstract-submission.html>.
- April 6 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- May 4 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- May 27 – 29, 2020 (Save the Date) – 2020 ACS Central Regional Meeting, Columbus, OH. For more information, please see <https://www.acs.org/content/acs/en/meetings/regional/central.html>.
- June 1 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.

The Midland Chemist is published twelve times a year by the Midland Section of the American Chemical Society, P.O. Box 2695, Midland, MI 48641-2695, <http://www.midlandacs.org>.

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