

THE MIDLAND CHEMIST

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A Century of Science and Service – Visit and Win!

Gina Malczewski, Centennial Committee, Midland Section ACS

The Centennial Exhibit at the Doan History Center on Main Street is open! Weekday hours are 9:00 AM to 5:00 PM, and for the month of July, it will also be open 12:00-4:00 PM on weekends. We just received some important artifacts from the Science History Institute, so content will be updated by mid-July.

On Saturday, July 20, we are offering a FREE science hands-on program on diaper polymer (sodium polyacrylate) in the Doan History Center Atrium at 1:00 PM, so join us! Superabsorbent polymer is one of the products for which Midland Section ACS members have important patents – and it is featured in our centennial display.

The exhibit holds all kinds of important and interesting information, and there are interactive activities. As an incentive to encourage you to check it all out, **we will enter the first 25 people who send an e-mail note with answers to the questions below (see page 2) to reginamalczewski@gmail.com in a drawing to win a \$25 Gratzi gift certificate!** (Sorry, centennial committee members are ineligible for this drawing.)

Please answer the following questions, 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?

We intend to have adjunct educational programs each month that the exhibit is open, through December 2019. There will be different topics for each month, all related to the exhibit, and they will include art projects, hands-on science demos, and a scavenger hunt, among other special things of interest for the broader community. We will also be bringing in a special guest speaker and book author, Sam Kean, on November 5.

The table below outlines a tentative schedule of what to look forward to in the coming months.

Tentative Schedule of Midland Section ACS 2019 Centennial Exhibit Programs		
Date	Venue	Program
July 20	Doan History Center Atrium	Super Soaker: Diaper Polymer
August 10	Doan History Center Atrium	Midland Memories: 1919
September 14	Doan History Center Atrium	Chemistry and the Art of Styrofoam™
October 12	Heritage Park History Campus	Scavenger Hunt / Inventor's Forum
October 19	Doan History Center Atrium	Silly and Special: Warrick's Putty, or It's a Wrap! – The Science of Saran™ and Plastic Films
November 5	Doan History Center Atrium	Sam Kean: Stories about Elements and Chemicals in History (and book signing)
December 7	Doan History Center Atrium	Silly and Special: Warrick's Putty, or It's a Wrap! – The Science of Saran™ and Plastic Films
December 14 or 15	Doan History Center Atrium	Christmas Chemistry and Crafts

In addition, we are also planning hands-on science activities for school groups that will be coming to visit the Centennial Exhibit throughout the duration of the museum display. For any questions about the Centennial Exhibit, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.

Science-up for Summer!

Gina Malczewski, Outreach Committee, Midland Section ACS

Midland Section ACS outreach activities offer alternatives to summer boredom! A program was held on “Edible Chemistry” at the Mid-Michigan Children’s Museum in Saginaw on June 27, and we are doing a career-related presentation there on August 6, as well as sessions at the Rock (“Carnival Science” on July 9) and at the Mount Pleasant Discovery Museum (“Bubble-ology” on August 9). We will also have a tent near the Kids Zone during River Days on August 3, 10:00 AM to 4:00 PM, and will offer activities at the Midland County Fair, so come and join us!

In addition, a FREE science camp – **STE(A)M Stew II** – for those entering grades 6, 7, and 8 in the fall will be offered with Michigan State University at MSU-St. Andrews in Midland, August 20-23, 8:30 AM to 4:00 PM. Flyers will soon be out and applications available. Content includes coding with drones, engineering and building activities, biochemistry, entomology, programs featuring art and math, along with a tour involving the Whiting Forest canopy walk!

Super Soaker: Diaper Polymer Program, July 20

Gina Malczewski, Centennial Committee, Midland Section ACS

SUPER SOAKER:
Hands-on Science with Diaper Polymer
1-2 pm July 20, 2019
FREE!

Learn about polymers
Beads or powder?
Do experiments to highlight how the polymer works
Take home samples

Visit our centennial chemistry exhibit too!

Atrium of the Doan History Center
(Midland County Historical Society)
3417 W. Main St., Midland

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

Midland Section ACS Receives 10 ChemLuminary Nominations for 2018 Programs

Amanda Palumbo, Chair, and Wenyi Huang, Past Chair, Midland Section ACS

From the 21 award categories that the Midland Section ACS self-nominated on our 2018 Annual Report, the National ACS has selected 10 programs as finalists, listed below (see pages 4 and 5). The 10th nomination is for Outstanding Section Performance in the Medium Size Category, which considers the overall breadth and effectiveness of all local section activities. These nominations represent many volunteer hours, interactions with diverse community groups, and successful engagement on scientific topics at various levels.

Winners will be announced and the presentation of awards will occur at the [ACS Fall 2019 National Meeting & Expo](#) in San Diego, CA on Tuesday, August 27, at the Manchester Grand Hyatt San Diego, located at 1 Market Place, San Diego, CA 92101. The presentations will include awards given by 20 committees of the American

Chemical Society. Whatever the outcome of the selection process, we are extremely grateful for the efforts of our volunteers and collaborators, and very proud of our community impact. Thank you to everyone for your service and commitment to our community and the ACS!

To learn more about the ChemLuminary Awards, visit <https://www.acs.org/content/acs/en/funding-and-awards/awards/community/chemluminary.html>.

Award Nomination	Program(s) Submitted
Best Activity or Program Stimulating Member Involvement	An Overview of the Congressional Chemistry Caucus: The event featured Congressman John Moolenaar, co-founding member of the Congressional Chemistry Caucus, who discussed the Congressional Chemistry Caucus and hosted an open forum focused on the benefits of chemistry in today's society and its impact on our country and Central Region. Issues related to the transformative power of chemistry, the promotion and advancement of pro-chemistry policy, and the future composition of chemists, were discussed and debated.
Fostering Interactions Between Local Sections and Student Chapters	Fostering Interactions Between Local Sections and Student Chapters including Delta College, Central Michigan University, Saginaw Valley State University, and University of Michigan-Flint.
Most Innovative Activity in a Local Section for Senior Chemists	Plans and Activities in Support of the Section's 2019 Centennial: "Night at the Museum" event to increase awareness of the Midland Section ACS, what it has done and what it continues to do as a professional organization, to inform the public of the novel chemistry that has been done by Midland Section ACS members and its impact on the world, to make the community aware of the contribution the Midland Section ACS has made to Midland as a whole, and to inform people about the history campus and its wonderful facilities (including a National Historical Chemical Landmark).
Outstanding Community Involvement in Chemists Celebrate Earth Week	ACS Midland Section Has Tremendous Earth Day Activities to involve retirees, professionals, and students. "First time" collaboration included the participation of four counties in our Illustrated Poem contest, the presence of a local high school at the Expo, and the involvement of Delta College in a "skyped" seminar. Overall community involvement was broad and ranged from the contributions of a group with disabilities (Do All) to our Waste Water treatment facility and an underwater dive group. ACS retirees offered free home-roasted coffee.
Outstanding Community Involvement in National Chemistry Week	Great Lakes Bay STEM Festival at Delta College engaged over 40 different volunteer groups, and the Midland Section ACS collaborated in this event.
Outstanding Continuing Public Relations Program of a Local Section	ACS Midland Section Spring Awards Banquet
Outstanding High School Student Program Award	High School Programs on Mixtures and Emulsions: The Chem 1 "Mixtures and Emulsions" program began in 2017 with a target to reach all Bay City Chemistry 1 high school students (and some honors 8th graders) in the 2017-18 school year. Concepts included melting point, mixtures, emulsions, surfactants, emulsifiers, and skin moisturization (occlusion and humectancy). The hands-on sections included making lip

	<p>balm (measuring components, melting them together, and dispensing them into tubes), testing natural emulsifiers (using food materials to homogenize vinegar and oil), and making lotion (mixing oil and water and then adding a surfactant/thickener).</p>
<p>Outstanding Ongoing Chemists Celebrate Earth Week Event</p>	<p>Earth Day Expo at Midland Center for the Arts: For 15 years we have done Earth Day events (centered around the Expo). Current professionals, retirees, and students (from Delta College, Central Michigan University, and high schools) have been involved. We have also had representation from a large variety and number of local organizations, depending on the theme.</p>
<p>Outstanding Ongoing National Chemistry Week Event</p>	<p>Great Lakes Bay STEM Festival at Delta College: Over 40 different groups volunteered or collaborated in this event. These groups included local section members and retirees, local area schools such as Bay City Public Schools, Midland Public Schools, Saginaw Public Schools, St. Charles Public Schools, Merrill Public Schools, Hemlock Public Schools, and Freeland Public Schools. Area Home School students and area Parochial Schools also collaborated in this event. College/University Chemistry clubs, Physics clubs, Math clubs, and other student clubs from area colleges such as Central Michigan University, Saginaw Valley State University, Delta College, and 80-100 students from Michigan Tech's Mind Trekkers group. Other groups included professional organizations (AIChE, SPE), local museums, libraries, Midland Center for the Arts, Chippewa Nature Center, and a lot of STEM Outreach groups including one as far away as Flint, MI. Local area High School Robotics groups also participated. Dow Chemical, Nexteer, Covenant HealthCare, Consumers Energy, Hemlock Semiconductor, Michigan Department of Transportation, and other local businesses both donated funds and participated by having volunteers doing hands-on activities.</p>
<p>Outstanding Performance Award – Medium Size Category</p>	<p>Considers the Overall Breadth and Effectiveness of All Local Section Activities: With unwavering commitment to the Midland Section, our Board members and Committee chairs continued to lead our Section to organize and host more than 100 events including the planning of CERM 2019 and the Centennial Exhibit, which have had an invaluable impact on over 575 ACS members and close to 20,000 professionals, students, and the broader community of the Great Lakes Bay Region.</p>

Collectors Stamp Made for Midland Section ACS Centennial

Ashley Schafer, Midland Daily News

Editor's note: The information in this article is reprinted, in part, from an article written by Ashley Shafer for the *Midland Daily News*. It was published in the Friday, June 7, 2019 issue of the *Midland Daily News*.

A postmaster, a designer, a retired chemist, and a stamp collector were all together at the local history museum on June 6. Why? That week, Midland was hosting the 2019 Central Regional Meeting of the American Chemical Society at the H Hotel downtown, bringing in hundreds of ACS members and their families. Being the largest national scientific society, the ACS is made up of local sections in every state, including the Midland Section which is celebrating its 100th anniversary this year.



To commemorate the centennial, and adding another activity to the conference, a special cancellation stamp was designed. Cancellation stamps are ink markings that are stamped onto postage stamps in order to deface them and prevent them from being reused. Cancellations have become a medium for collectors and can cost anywhere from a few dollars to hundreds or even thousands of dollars.

(Photo credit: Ashley Shafer,
ashley.schafer@hearstnp.com)

On Thursday, June 6, the 100th anniversary stamp was disseminated during a two-hour window at the Herbert D. Doan Midland County History Center, bringing together a mix of professionals and preservers of history. Visitors could purchase exclusively designed ACS envelopes and postage and then receive the stamp for free. Postmaster Scott Goss and Lead Clerk Lorrie MacDonald from the U.S. Postal Service were there selling postage stamps and administering the cancellation stamp to envelopes.

Goss said they have special cancellations made for special occasions all over the state, including one for the Tall Ships in Bay City. After June 6, anything stamped with the ACS cancellation cannot be mailed, Goss said. However, the stamp will still be available for collectors at the Midland Post Office on Rodd Street until the first week in August.

One avid collector and past chair of the Midland Section ACS, John Blizzard, said he has been collecting U.S. stamp cancellations for more than 50 years, or in his words, "spending a lot of money on paper." He said he enjoys the history of them and hopes to pass his collection on to a grandchild someday. "I think it's a unique way to document history," he said.

In addition, the designer of the envelopes and stamp, John Metcalf was there signing the envelopes to increase their value for collectors. Metcalf designed four envelopes that each featured an influential Midland scientist, including Earl Warrick, inventor of Silly Putty in 1947; Ralph Wiley, who invented SaranTM plastic in 1949; and O. Ray McIntire who invented StyrofoamTM in 1948. The fourth envelope featured chemist Fredric L. Buchholz who was also in attendance signing envelopes.

Buchholz is a retired Dow chemist who invented a super-absorbent polymer in 1972. The polymer, capable of retaining liquids, is commonly used in diapers and feminine hygiene products. "I did a lot of work on making the materials at that time (at Dow)," he said. "But the actual idea of putting this polymer into diapers to make dry diapers – that came out of a couple of researchers at Dow in the Freeport (Texas) area."

For more information about the Midland Section of the American Chemical Society, visit <http://www.midlandacs.org/>.

There Is Still Time to Get Commemorative Stamped Envelopes!

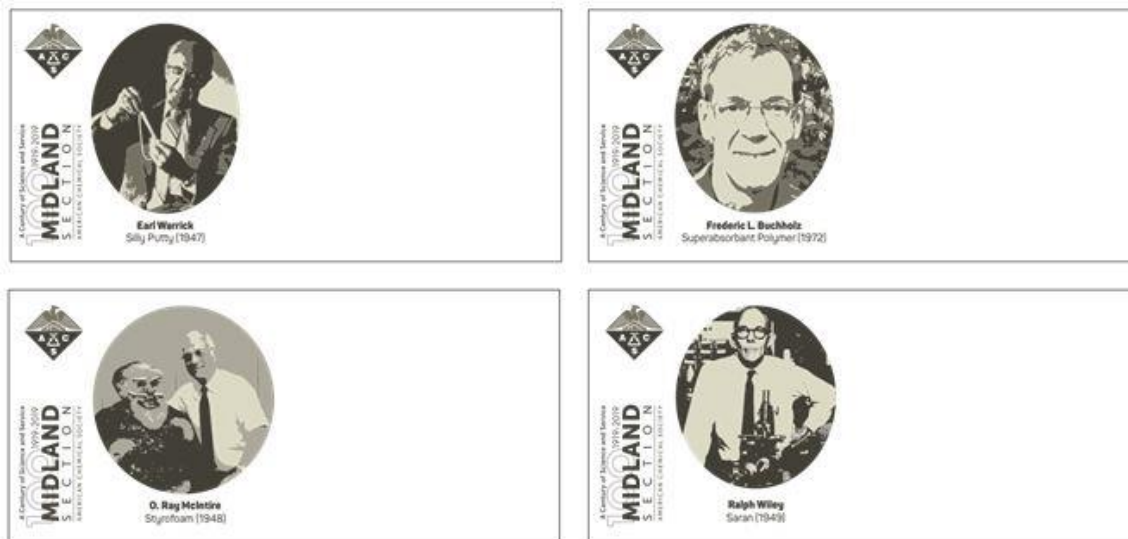
Gretchen Kohl, Centennial Committee, Midland Section ACS

You are in luck! Until the second week of August 2019, you can still get a letter or other envelope with the special commemorative cancellation stamp from the US Post Office in Midland. We still have commemorative envelopes, too, featuring images of the four local inventors whose products are featured in the Midland Section ACS Centennial Exhibit. Our museum exhibit designer, John Metcalf of Good Design LLC, designed these envelopes.

Midland's US Postmaster, Scott Goss, can use the special cancellation stamp on any envelope that has the correct postage for mailing attached. However, since the cancellation was for June 6, 2019, the letters cannot be mailed with this cancellation, but would only be useful for collection or souvenir purposes.



Commemorative envelopes for any or all of the four inventors can still be obtained (as well as the special envelopes from our 1997 event) by contacting Gretchen Kohl. Pictures of the envelopes are shown below. We do have some sets and individual envelopes that have postage and the stamp already attached. If interested, please contact Gretchen at (989) 708-9066 or gretchen.kohl@att.net.

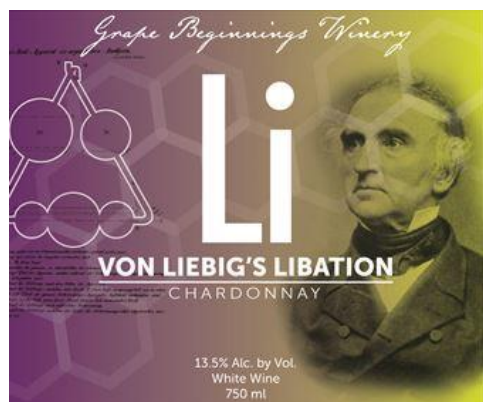


Midland Section ACS Centennial Wines Still Available at Grape Beginnings Winery

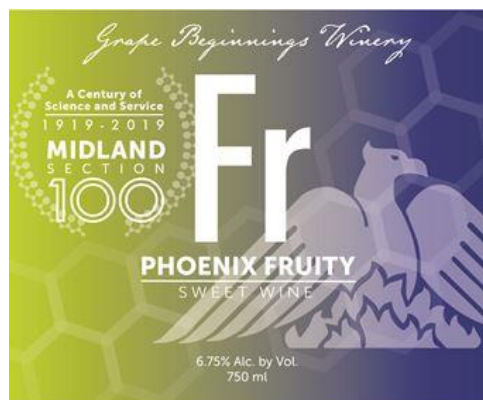
Gretchen Kohl, Centennial Committee, Midland Section ACS

Wines from Grape Beginnings Winery on Main Street in Midland were featured at our Centennial Exhibit opening on May 10, 2019, and also at the exhibit fund-raiser ("A Night at the Museum") event in July 2018.

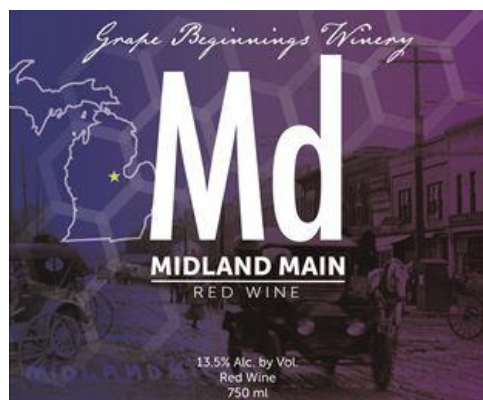
Three different varieties of wine are still available that feature the Midland Section ACS Centennial labels, designed by our museum exhibit designer, John Metcalf of Good Design LLC. Most wine drinkers can find a bottle for their own enjoyment, and these wines would also make a great gift for any chemist (or non-chemist) on your gift list. You can choose from among the following three wines:



Von Liebig's Libation – Dry Chardonnay, vanilla and oak, buttery smooth, full-bodied flavor with peach and mango fruit aromas (\$14.50 per bottle)



Phoenix Fruity – Sweet Wine, fruity peach apricot chardonnay (\$11.50 per bottle)



Midland Main – Red Wine, plums and red berries with a light oak, smooth finish (\$16.50 per bottle)

Grape Beginnings is a local winery, located in downtown Midland (244 East Main Street), with memorable, fun food and outside seating available, weather-permitting. Their business hours are:

Monday: Closed
Tuesday–Wednesday: 1:00 to 9:00 PM
Thursday–Friday: 1:00 to 10:00 PM
Saturday: 11:00 AM to 10:00 PM
Sunday: 12:00 to 5:00 PM

Grape Beginnings Winery is a great supporter of the Midland Section ACS, so stop by and say thank you, and try a wine tasting, a snack, or one of their unique gifts for the wine-lovers in your life.

Did the More Favored or Less Favored Candidate Win the Second Director-at-Large Position? ***Wendell L. Dilling, Director and Historian, Midland Section ACS***

The results of the 2016-2018 National ACS preferential elections for two Directors-at-Large (DAL) each demonstrate that the vote counting procedure needs to be changed (*C&EN*, Nov. 7, 2016, p 7; Nov. 6, 2017, p 5; Nov. 12, 2018, p 3). The first-preference vote counts in the 2018 election as reported by *C&EN* were as follows:

DAL Candidate	Round 1	Round 2	Round 3
Ingrid Montes	122	139	193
Lee H. Latimer	106	115	169
Frank D. Blum	100	115	
Angela W. Peters	41		

The pertinent part of the General Procedure 2.b. states that if no candidate receives a majority of first-preference votes cast, the candidate with the fewest first-preference votes is eliminated from further consideration (<http://www.acs.org/content/dam/acsorg/about/governance/councilors/procedures-balloting-and-preferential-voting.pdf>).

In the 2018 election, the effect of this procedure was to eliminate Peters and Blum before the vote counting for the second candidate to be elected was started and the second-preference votes on the ballots where Montes was the first-preference were distributed only to Latimer or not at all. Those voters who voted for Montes as their first-preference and either Peters or Blum as their second-preference didn't have their second-preference votes counted. These votes should have been distributed to all three of the remaining candidates. Analogous results occurred in the 2016 and 2017 elections.

If the candidates that were “eliminated from further consideration” above were only “eliminated in this stage of the vote counting” the results could have been different. The National ACS Committee on Nominations and Elections (N&E) has thus far not made efforts to change the current procedure even though urged to do so.

ACS DAL are elected by members of the Council. Usually two DAL are elected from four candidates. Until several years ago these directors were elected by plurality with each councilor having two un-prioritized votes.

Many times recently one of the two elected DAL candidates was elected by less than a majority of the voters. To avoid having this happen, a procedure was developed to require that all DAL are elected by a majority of the voters. To achieve this result a proposal was made to use the same preferential voting principle (instant run-off) that is used for electing the ACS President-Elect and District Directors when there are more than two candidates for a given position. The guiding principle for developing the vote counting procedure for election of ACS DAL several years ago was to use two consecutive preferential votes in one election.

The procedure to do the vote counting in these elections was approved by Council, but was flawed in that the procedure caused some candidates to be eliminated prematurely and some second-preference votes to not be counted.

The following account describes what happened in the 2018 election, but similar problems also occurred in the 2017 and 2016 elections.

The letter to the editor shown below was submitted for publication in *C&EN*. A similar letter was submitted last year on the same general subject, but was also not published. I hope the problem with the current vote counting procedure can be corrected before too many more elections are held. In the 2018 election with the second and third ranking DAL candidates receiving the same number of first-preference votes in the second round this correction to the procedure became critical. It would be appropriate for N&E to release the number of second-preference votes on the ballots where Montes was the first-preference for each of the other DAL candidates. Then we could determine for sure which candidate, Latimer or Blum (or, unlikely, even Peters), actually was favored by the most voters.

Did the more favored or less favored candidate win the second director-at-large position?

I agree with most of Attila Pavlath's comments concerning the 2018 ACS election (*C&EN*, Nov. 26, p 2). However, the vote counting procedure used for the Director-at-Large (DAL) positions needs modifying.

In this election Ingrid Montes and Lee Latimer were elected DAL (*C&EN*, Nov. 12, p 3). The candidates who finished second and third (Lee Latimer and Frank Blum) were tied with 115 first-preference votes each after the second round of vote counting. The tie was resolved by the Council-approved procedure where the candidate with the fewest first round preference votes was eliminated. This tie might have been resolved more equitably if second-preference votes on the ballots where Montes was the first-preference had been considered. If indeed these second-preference votes were counted, they were not reported in *C&EN*. Having second-preference votes count in this situation would require a procedure change so that Angela Peters and Frank Blum would not have been prematurely permanently eliminated after the first and second rounds of vote counting.

In the current procedure, the second-preference votes of Councilors who voted for Montes as their first-preference and one of the other candidates as their second-preference were not counted. If temporary elimination of candidates had not been required to elect Montes by a majority, the second-preference votes on the ballots where Montes was the first-preference would have been distributed to all three of the remaining candidates according to the Council-approved procedure. In a usual preferential election, second-preference votes are counted. Because the number of votes for the second and third place candidates was so close, the final outcome could easily have been reversed by adding the omitted second-preference votes.

A similar premature elimination of two candidates and failure to count some second-preference votes also occurred in the 2016 and 2017 DAL elections (*C&EN*, Nov. 7, 2016, p 7; Nov. 6, 2017, p 5).

These comments are not intended to imply that I think the elected candidates should not have been elected but rather that the election outcome might have been different with a more equitable vote counting procedure.

Wendell L. Dilling
Midland, Michigan

Summary of the 2019 CERM Technologist in Industry Session ***Jake Remacle, Mid-Michigan Technician Group***

On June 7, 2019, a technician focused session was held at the 2019 ACS Central Regional Meeting (CERM). The purpose of this session was to give technicians an opportunity to present scientific information and allow audience members to learn more about a technician's work.

The presenters for the session included two local university professors, a National Science Foundation leader, and four ACS National Chemical Technicians of the Year award winners. During the lunch break, a poster session was held, and at the conclusion of the day, a networking event was held.

The program was kicked off by Jeff Seifferly, who gave a talk titled "I Have to Take Chemistry? An Unconventional Path to a Successful and Rewarding Career as a Chemical Technical Professional." Jeff gave insights into how to be effective and grow even if the education wasn't necessarily fit for the position.

Dana Fuerst followed with "What Have I Gotten Myself Into? An Overview of One Chemical Technologist's Career Path at Dow." Dana reviewed her career as a technologist and how she used her background in volunteerism to develop her skills into her ideal career role.

We had a special guest, Dr. Thomas Higgins from the National Science Foundation in Washington, DC. Tom gave an overview of "National Science Foundation Programs that Support Undergraduate Chemistry Education." During his talk, Tom discussed the various programs and funding that is available for undergraduate research. This topic sparked quite a few conversations in the room.

Bill Killian from Ferris State University in Big Rapids, MI spoke about his tenure at Ferris and "Pertinent Aspects of the Industrial Chemistry Technology Program at Ferris State University." Bill gave the history of the ICT program, including Norm Peterson's legacy. The ICT program at Ferris has adapted to the current job market by offering a Bachelor's degree in addition to an Associate's degree.

A panel discussion was held with Tom Higgins, Bill Killian, David Baker, Dana Fuerst, Laura Nielsen, and Michelle Rivard. This panel discussion was lively and interactive with the audience. Several audience members were faculty at universities in the region and had specific questions on technician's roles, government funding, and the roles of chemical technologists in the future.

Diana Deese presented on personal branding, titled “Your Personal Brand: Who’s Got Your Number? (And, did they get it from the corporate halls ... or the bathroom stalls?).” Diana spoke about how your brand is made every day and is not defined by your role. She talked about the fragility of opinions and how hard it is to gain/regain trust.

Michele Rivard gave a technical talk on “Improved GC-FID Method for Analysis of D4, D5, and D6 Cyclic Siloxanes in Silicone Polymers Containing OH-terminated Siloxanes.” Michelle’s work on simplifying the chemistry allowed her to quantitate to much lower results.

Laura Nielsen (Phillips 66, 2019 National Chemical Technician of the Year) came from Oklahoma to present and join in on the panel discussion. She gave a talk on “Building on Success: Providing Technical Solutions for Scale Up of Organic Photovoltaics.” Laura spoke of the history of energy and how Phillips 66 is working to address energy needs.

Cheryl Roggenbuck spoke on “ ^{29}Si + NMR – A Powerful Combination for the Silicon Industry.” Cheryl talked about the basics of NMR and how ^{29}Si NMR has been adapted for Dow Performance Silicones. She compared ^{29}Si versus ^{13}C and ^1H NMR.

Carolynn Que, a Master’s graduate student from Michigan Technological University reviewed her work on “Fructose Analog Containing 3-D Scaffolds to Isolate and Study Breast Cancer Cell Metabolism by Mimicking Tumor Microenvironment.” Carolynn gave examples on methods used for feeding/starving metastasized cells. Measurements of the growth/decay were also shown.

Also from Michigan Tech, Samerender Nagam Hanumantharao finished the day with a talk on “Nanotopographical Cues for Fabrication of Efficient Wound Healing Patches Using Electrospinning.” Sam reviewed how easily fibers can be made, and provided brilliant microscope photos of his work.

The day was capped off with a networking event at Oscars, in downtown Midland. A taco bar was served while attendees mingled and discussed pertinent information.

Delta College Chemistry Professor Ron Sharp Earns MCCA Outstanding Faculty Award **Steve Keinath, Co-Editor, *The Midland Chemist***

Editor’s note: This article is reprinted, in part, from the Wednesday, June 12, 2019 issue of the *Midland Daily News*. Ron Sharp is a member of the American Chemical Society, joining the organization in 2006.



Ron Sharp, a longtime chemistry professor at Delta College, has been named the Michigan Community College Association (MCCA) 2019 Outstanding Faculty Award winner by the organization’s executive committee.

The Outstanding Faculty Award is presented each year to a Michigan community college faculty member based on his or her career achievements, service to humanity, honors received, and strong commitment to the community college mission.

Sharp, of Bay City, who has been teaching at Delta since 1971, has developed chemistry

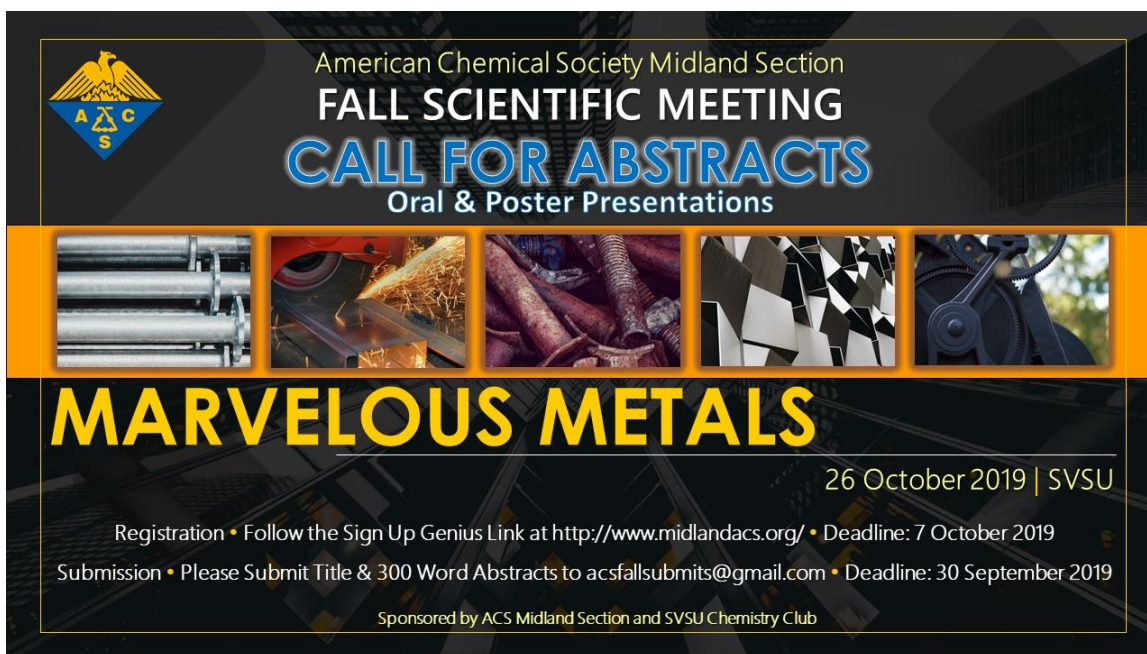
courses, authored laboratory manuals used in the classroom, and represented Delta at other organizations and local employers.

“Ron has influenced the lives of generations of students and is now even teaching the children of many of his former students,” said Delta College President Jean Goodnow. “He has also mentored new faculty members, and all of them have benefitted from the experience. Many people have said he is one of the best professors they ever had.”

Sharp, who is retiring this summer, said he has enjoyed teaching at Delta and sharing his love of chemistry, and was surprised to learn he had been selected for the award. He will receive the award at the MCCA Board of Director’s Summer Workshop on July 25, 2019 in Traverse City.

“I really enjoyed reading the letter of support from Dr. Goodnow, and thinking about all the incredible people that made this journey possible,” he said. “My wife and children for allowing me to wander the world, the Delta faculty, support staff and administration for their support, especially covering for me while I was away from campus, and the community at large for their financial and in-kind support for so many projects. It has been 47-plus years of ‘it’s a great day for chemistry’.”

The Michigan Community College Association is a statewide network of public community colleges whose mission is to provide leadership on issues affecting member colleges.



The poster is for the American Chemical Society Midland Section Fall Scientific Meeting. It features the ACS logo in the top left corner. The main title is "FALL SCIENTIFIC MEETING" in white, followed by "CALL FOR ABSTRACTS" in large blue letters, and "Oral & Poster Presentations" in white below it. A horizontal strip of five images shows various scientific and industrial scenes: a distillation column, a chemical reaction, a close-up of a metal surface, a molecular model, and a mechanical part. Below this strip, the title "MARVELOUS METALS" is written in large yellow letters. The date and location "26 October 2019 | SVSU" are in the top right. Registration and submission information is provided in the bottom left, and the sponsor "Sponsored by ACS Midland Section and SVSU Chemistry Club" is at the bottom center.

American Chemical Society Midland Section
FALL SCIENTIFIC MEETING
CALL FOR ABSTRACTS
Oral & Poster Presentations

MARVELOUS METALS

26 October 2019 | SVSU

Registration • Follow the Sign Up Genius Link at <http://www.midlandacs.org/> • Deadline: 7 October 2019
Submission • Please Submit Title & 300 Word Abstracts to acsfallsubmits@gmail.com • Deadline: 30 September 2019

Sponsored by ACS Midland Section and SVSU Chemistry Club

2019 Fall Scientific Meeting – Call for Abstracts

Elizabeth Santos, 2019 Fall Scientific Meeting Committee, Midland Section ACS

Announcing the 2019 Fall Scientific Meeting

Saturday, October 26, 2019, 8:00 AM – 5:00 PM, Curtiss Hall, Saginaw Valley State University

Check-in starting at 7:30 AM. Meeting theme: *Marvelous Metals*

The Midland Section of the ACS and the SVSU Chemistry Club cordially invite you to participate in this year's Fall Scientific Meeting and explore our theme of *Marvelous Metals*! The event will feature morning oral presentations and an afternoon poster session.

Keynote Speaker

Dr. Jerzy Klosin (Fellow, Core R&D) from Dow will present on "Development of Molecular Catalysts for the Production of Ethylene-Based Copolymers"



Additional Featured Speakers

Prof. Ronald Tackett – Kettering University

Prof. Martin Crimp – Michigan State University

Prof. J. Wayne Johns – University of Michigan

Prof. Gabriel Caruntu – Central Michigan University

A complete program and abstract book will follow.

Important Dates

Abstract Submission Deadline for Poster and Oral Presentations: September 30, 2019

Fall Scientific Meeting Registration Deadline: October 7, 2019

Call for Abstracts

For poster and oral presentations, please submit a title and a 300-word abstract to acsfallsubmits@gmail.com.

Oral presentations will be 20 minutes in length with 10 minutes for Q&A. Posters have suggested dimensions of 48" x 36". Strict adherence to the meeting theme is not a requirement.

Event Cost

This meeting is FREE! All registrants are encouraged to join us in the SVSU Marketplace Café for lunch, where you can purchase your meal directly. The first 100 students to register for the meeting will receive a complimentary meal ticket.

Registration

To ensure that name tags are available for all presenters and attendees, please use the [2019 FSM SignUpGenius](#) page to register. This will also ensure that we have adequate accommodations for all attending. For more information or any questions, contact Elizabeth Santos (EMSantos@dow.com).

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.



It is impossible to imagine what the world around us would look like without chemistry. Whether producing high-performance athletic apparel or commercializing paint with less environmental impact, chemistry is central to everything! For me, having spent much of my career at DuPont, I continue to be personally and professionally committed to DuPont's onetime vision of making "Better Things, for Better Living, through Chemistry." Now, leading the American Chemical Society whose mission is "Improving people's lives through the transforming power of chemistry," I'm inspired to see the power of innovative chemistry harnessed worldwide. I challenge those in the chemistry enterprise to follow the lead of this cartoon and clearly communicate the wonders and benefits of this central science to everyone around them.

-- Thomas M. Connelly, Ph.D., ACS Executive Director and Chief Executive Officer

In Memoriam – Marguerite Leng
Steve Keinath, Co-Editor, *The Midland Chemist*

Editor's note: The obituary for Marguerite Leng as it appears here is reprinted, in part, from the Wednesday, May 22, 2019 issue of the *Midland Daily News*. Marguerite became a member of the American Chemical Society and at the time of her passing was a 50-year member of the ACS.



Marguerite Leng died peacefully Sunday, May 19, 2019, at the age of 92 surrounded by members of her loving family. Marguerite was born September 25, 1926, in St. Albert, Alberta, Canada, daughter of Marie and Joseph Lambert. She became an accomplished scientist with expertise in pesticide regulatory affairs and food safety evaluation. She was employed by The Dow Chemical Company for 35 years. In her heyday, Marguerite was a force to be reckoned with. Joining Dow in 1956, she was feisty, a fighter, a brilliant scientist, and one of the very first to pave the way for other women entering science and engineering in an exclusively male-dominated field at that time. Marguerite created several sensitive methods of detecting minute quantities of pesticides in food, dairy, and other products. She leaves an amazing legacy with her career at Dow Chemical, which included working with the EPA, agencies of the United Nations, and the World Health Organization. She authored several books and was fluent in French and multiple other languages.

Marguerite received her Bachelor's degree in honours chemistry at the University of Alberta, her Master's degree in chemistry at the University of Saskatchewan, and her Ph.D. in biochemistry at Purdue University. It was at Purdue that Marguerite met and married another Canadian Ph.D. student, Douglas Leng, and they were married on June 18, 1955, in Kitchener, Ontario. Together, they juggled demanding careers, raising a family, and shared many interests and hobbies. As avid sailors, she and Doug would spend many weeks every summer with their children and friends sailing the North Channel, most summers sailing Panacea, their 37-foot sloop. They also shared a love of hockey, supported their sons in their hockey careers, and especially enjoyed watching NHL hockey. True to her Canadian roots, Marguerite also was an accomplished curler, and she and Doug were one of the founders of the Midland Curling Club, now the Greater Midland Curling Center. They both were inducted into the Midland County Sports Hall of Fame in 2010. They were proud to become American citizens after 50 years. They enjoyed many trips to Europe, as well as Alaska and around the Great Lakes by cruise ship.

Surviving in addition to her husband, Douglas of 63 years, are their three children, Ron (Tricia) Leng of Midland, Janet (Craig) Tangi of Dublin, OH, and Doug Leng of Richland, MI.

Marguerite will be dearly missed by many including her nine grandchildren, Ryan of Phoenix, AZ, Katy and Ray Welker of Ann Arbor, Jessica and Zac Sturgeon of Grand Rapids, Michael Dumas of Detroit, Phillip Dumas of Columbus, OH, Craig of Greeneville, TN, Kristin of Hoboken, NJ, Taylor and Kirk Lowe of Greeneville, TN, and Kelsey of Knoxville, TN.

Marguerite was preceded in death by her parents, and brothers, Marcel Lambert and Lucien Lambert.

The family would like to thank Helping Hand caregivers Julie Hill and Zander Holms for their kind care given to Marguerite.

A memorial visitation was held from 4:00-6:00 PM on Tuesday, May 28, 2019 at Smith-Miner Funeral Home in Midland. In lieu of flowers, those planning an expression of sympathy were asked to consider The Salvation Army or Red Cross of Midland.

Upcoming Dates, Events, and Other Updates

- July 20 (1:00 – 2:00 PM) – 2019 Midland Section ACS Centennial Exhibit program, *Super Soaker: Diaper Polymer*, 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.
- July 21 (2:00 PM) – Save the date for a fun, family *ACS Day with the Great Lakes Loons* baseball outing event, Dow Diamond, Midland. For more information or any questions, please contact Michelle Rivard at michelle.rivard@dow.com.
- August 3 (10:00 AM – 4:00 PM) – Midland Section ACS Outreach activities, offered during Midland's River Days Festival. Look for the ACS tent near the Kids Zone. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com.
- August 5 (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.
- August 9 (Save the Date) – Midland Section ACS Outreach program, *Bubble-ology*, Mount Pleasant Discovery Museum. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com.
- August 10 (Save the Date) – 2019 Midland Section ACS Centennial Exhibit program, *Midland Memories: 1919*, 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.
- August 20-23 (8:30 AM – 4:00 PM) – FREE science camp – **STE(A)M Stew II** – for those entering grades 6, 7, and 8 in the fall, offered with Michigan State University at MSU-St. Andrews in Midland. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com.
- August 25-29 (Save the Date) – 258th ACS National Meeting & Exposition, San Diego, CA. For more information, see <https://www.acs.org/content/acs/en/meetings/national-meeting.html>.
- September 9 (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.
- September 14 (Save the Date) – 2019 Midland Section ACS Centennial Exhibit program, *Chemistry and the Art of Styrofoam™*, 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.
- September 30 – **Abstract submission deadline** for poster and oral presentations for the 2019 Midland Section ACS Fall Scientific Meeting. Location: Curtis Hall, Saginaw Valley State University. Date and time: Saturday, October 26, 8:00 AM – 5:00 PM. Meeting theme: *Marvelous Metals*. Presentation titles and 300-word abstracts should be sent to acsfallsubmits@gmail.com. For more information or any questions, contact Elizabeth Santos (EMSantos@dow.com).
- October 7 (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.
- October 7 – **Registration deadline** to attend the 2019 Midland Section ACS Fall Scientific Meeting. Location: Curtis Hall, Saginaw Valley State University. Date and time: Saturday, October 26, 8:00 AM – 5:00 PM. Meeting theme: *Marvelous Metals*. For more information or any questions, contact Elizabeth Santos (EMSantos@dow.com).

- October 12 (Save the Date) – 2019 Midland Section ACS Centennial Exhibit program, *Scavenge Hunt / Inventor's Forum*, Heritage Park History Campus, Midland. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.
- October 19 (Save the Date) – 2019 Midland Section ACS Centennial Exhibit program, specific topic TBD, *Silly and Special: Warrick's Putty*, or *It's a Wrap – The Science of Saran™ and Plastic Films*. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.
- October 26 (8:00 AM – 5:00 PM) – 2019 Midland Section ACS Fall Scientific Meeting, Curtis Hall, Saginaw Valley State University. Check-in starting at 7:30 AM. Meeting theme: *Marvelous Metals*. For more information or any questions, contact Elizabeth Santos (EMSantos@dow.com).
- 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 5 (6:00 – 8:00 PM) – 2019 Midland Section ACS Centennial Exhibit program, *Author Sam Kean: Stories about Elements and Chemicals in History (and book signing)*, 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.
- 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 7 (Save the Date) – 2019 Midland Section ACS Centennial Exhibit program, specific topic TBD, *Silly and Special: Warrick's Putty*, or *It's a Wrap – The Science of Saran™ and Plastic Films*. For any questions, contact Gina Malczewski at reginamalczewski@gmail.com or Gretchen Kohl at gretchen.kohl@att.net.
- December 14 or 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.

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you. If you do have e-mail and would prefer to get the publication electronically, please notify the editor at newseditor@midlandacs.org. However, if you do not have e-mail, we are happy to provide the publication as hardcopy. If you have any questions about events and only electronic communication information is listed, feel free to contact the Midland Section ACS Chair, Amanda Palumbo, at amanda.palumbo@dow.com.