

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

August 2022, Vol. 59, No. 8

Contents

Call for Nominations for 2023 Officer and Director Candidates.....	1
SVSU Adjunct Chemistry Instructor Opportunities	2
Senior Chemists' Lunch, August 18	2
FREE In-Person STEAM Stew V Summer Camp: "H2-Whoa!" at MSU St. Andrews	3
Sprouts and STEMs is Back for 2022!	4
ACS Day at the Midland County Fair, August 18.....	5
18th Annual MSU ChEMS Department Research Forum, August 23.....	6
ArtWalk Central at the CMU Museum, August 25	8
Testing the Limits of Recycling – Part II	9
Please Consider the Midland ACS Scholarship Fund in Your 2022 Giving!	10
In Memoriam – Etcyl Blair.....	11
In Memoriam – Sheldon Harold Messing	13
In Past Issues of <i>The Midland Chemist</i>	14
Upcoming Dates, Events, and Other Updates	16

Call for Nominations for 2023 Officer and Director Candidates

Shuting Feng, Chair, Nominations and Elections Committee, Midland Section ACS

Here is your opportunity to become more involved in your local ACS section! We need candidates to run for the following positions for 2023:

- Chair-elect (1-year term)*
- Secretary (1-year term)
- Treasurer (1-year term)
- Chair, Nominations and Elections Committee (1-year term)
- Directors (3 open positions for 3-year terms)

*Note: The election of a Midland Section ACS member to the Chair-elect position triggers a rolling three-year commitment, the first year as Chair-elect, the second year as Chair, and the third year as Past Chair. The Chair and Past Chair positions are not subject to the annual elections process unless a vacancy arises.

If you are interested in running for any of these positions, or if you know of someone who might be interested, please contact Shuting Feng at fengs1391@gmail.com. If you have any questions regarding the responsibilities of any of the positions, please contact the current officers or Shuting Feng. You are also encouraged to visit our website at www.midlandacs.org.

SVSU Adjunct Chemistry Instructor Opportunities

Jennifer Chaytor, Professor and Chair, Department of Chemistry, Saginaw Valley State University



I am the Chair of the Department of Chemistry at Saginaw Valley State University, and we are searching for adjunct chemistry instructors. Would you be interested in, or do you know of someone who would be interested in, having a direct impact on undergraduate chemistry education in the greater Saginaw Valley region?

SVSU currently has openings available for adjunct chemistry instructors for the Fall 2022 (August 29 – December 17) and Winter 2023 (January 9 – April 29) semesters.

The current need is for instructors for general chemistry labs (both day and night) and for analytical chemistry labs (both day and night). All course curricula are already developed and will be provided to the adjunct instructors.

Please contact Jennifer Chaytor (jchaytor@svsu.edu) if you have an interest, or for any questions. Thank you.

Senior Chemists' Lunch, August 18

Gina Malczewski, Director and Outreach Committee, Midland Section ACS

SENIOR CHEMISTS' LUNCH
All adults invited!

Creative 360 Lawn and Gardens
1517 Bayliss St
Midland, MI
12-1 pm August 18, 2022
Free Food (Vegetarian options)
Rain Option: Indoor Gallery

Networking, socializing and info on opening of updated ACS Centennial Exhibit at CMU Provided. Sign-up for senior transportation to and from opening event on September 22 and hear about opportunities for other senior involvement

Questions? Contact Gina Malczewski at reginamalczewski@gmail.com.



FREE In-Person STEAM Stew V Summer Camp: "H2-Whoa!" at MSU St. Andrews
Gina Malczewski, Director and Outreach Committee, Midland Section ACS

Monday to Friday, August 1-5, 2022, 9:00 AM to Noon (most days)

Please register by Tuesday, July 19. For more information or any questions, please contact Gina Malczewski at reginamalczewski@gmail.com, or Claire Light at lightcla@msu.edu.

STEAM Stew V:

H₂-WHOA!

IN PERSON Summer Camp
For Rising 6-8th Graders in Fall, 2022
Aug 1-5, 2022
9 am-Noon* FREE



MICHIGAN STATE
UNIVERSITY

MSU St. Andrews American Chemical Society



Sprouts and STEMs is Back for 2022!

Gina Malczewski, Director and Outreach Committee, Midland Section ACS

Last year's successful garden-focused programming at the Creative 360 Community Garden (1517 Bayliss Street) is returning for 2022. "Sprouts and STEMs" began July 27, 2022, with "Living Light: Fireflies," and there is still more to come!



Wednesday, July 27 (Preregister by 7/24) - 7 pm (optional Garden Tour at 6:45 pm)

Did you know that a mature firefly lives for only one month? That firefly eggs can glow in the dark? Join us to learn about these fascinating insects (and see a few!) We will read a firefly story, do a "glow" experiment, and there will be glow-in-the-dark art projects!

The "Sprouts and STEMs" program is a collaboration between Creative 360, the Midland Section of the American Chemical Society and the Midland County Youth Action Council. The accessible and inclusive teaching garden at Creative 360's Bayliss site is the perfect location to learn about art, environmental responsibility and natural science.

This is the first in a series of STEM-focused garden experiences for children and families.

All events are FREE, please pre-register by calling C360 to let us know how many people are attending.



(989) 837-1885 ~ becreative360.org ~ 1517 Bayliss St. ~ Midland, MI ~ 48640



On the right is a photo from the Firefly event on July 27, showing an attendee with his firefly art project and a set of wings decorated with glow-in-the dark stickers (photo by Dave Stickles).

On August 17, Elly Maxwell (Dow Garden's entomologist) will speak about bees and other stinging insects at 7:30 pm.

Creative 360 will offer a session on "Heathy Eating" on August 31.

ACS presentations are free, will usually include an interactive component, and are family-oriented; the site for most of these is the pavilion on the grounds near the parking lot (the rain option will be in the gallery indoors).

2022 is the 7th year ACS has had plots at the Creative 360 Community Garden, all produce from which is donated to local food pantries; in 2015 we built a greenhouse out of recycled bottles that is still in use, and last year a Children's Teaching Garden was added. We currently manage the garden as well. ACS offered a five-evening hands-on program associated with the garden last year, and we intend to offer similar but enhanced events this summer and fall. Please check the Midland ACS website (midlandacs.org) and the Creative 360 website (becreative360.org) or call Creative 360 at 989-837-1885 for more information.



ACS Day at the Midland County Fair, August 18
Hunter Woodward, Chair-Elect, Midland Section ACS

ACS DAY at the Midland County Fair!

Sponsored by the Midland Section of the American Chemical Society

Thursday, Aug 18, 2022



FREE

Hot dogs, chips, drinks,
popcorn & cotton candy

to **ACS/MMTG/YCC**
members, families
and friends

4:30-7:30 pm,
Barn 37 by the
Grandstand



Ride 'til you drop!

Discounted ride bands are good for a Single-day,
All-day, Any-day of Fun!

just \$25.00!

SCIENCE
DEMOS &
NETWORKING

4:30-7:30 pm
Barn 37 by the
Grandstand



Advance ticket sales only – MUST PURCHASE by Thurs, AUG 11 @ 10am!

Hunter Woodward- wwoodward@dow.com



18th Annual MSU ChEMS Department Research Forum, August 23

MSU ChEMS Department, East Lansing

The Department of Chemical Engineering and Materials Science (ChEMS) at Michigan State University invites you to join us at the 18th annual ChEMS Department Research Forum on Tuesday, August 23, 2022. The forum is a full-day event, running from 9:00 AM to 5:00 PM, and will be held at the Huntington Club at Spartan Stadium, 325 West Shaw Lane, East Lansing, on the campus of MSU.

The 18th annual ChEMS Research Forum will showcase department research advances in the areas of:

- Energy and Sustainability
- Nanotechnology and Materials
- Biotechnology and Biomedical Engineering

The one-day program will feature invited plenary speakers, oral presentations from faculty and students, and an extended poster session describing the latest department research results.

If you or your company shares an interest in chemical engineering and materials science, then this event offers a uniquely personal and informal view into the general research directions of the ChEMS department, its current research projects, and, most importantly, an opportunity to get to know the many talented graduate students that are at the heart of it all. We hope to welcome you to MSU on August 23!

Keynote Speakers:



- **Sean Palecek** – Chemical and Biological Engineering, University of Wisconsin-Madison
- **Caroline Szczepanski** – Chemical Engineering & Materials Science, Michigan State University
- **Jose Mendoza-Cortes** – Chemical Engineering & Materials Science, Michigan State University

Keynote Topics:

- **Biomanufacturing Cardiac Cells from Human Pluripotent Stem Cells – Identification of Critical Quality Attributes and Process Parameters**

Biomanufacturing cells and tissues from human pluripotent stem cells (hPSCs) typically strives to guide differentiation through developmentally relevant pathways in a well-defined,

dynamic bioreactor environment. While great strides have been made in differentiating hPSCs to many somatic cell types, robust biomanufacturing remains a roadblock to the clinical progress of hPSC-derived cell and tissue therapies. In particular, scaling manufacturing to meet clinical needs, reducing cost, improving cell phenotypes, and improving process robustness are critical challenges. hPSC-derived cardiomyocytes have tremendous potential to restore cardiac function in heart failure patients. However, these cells suffer from poor survival and functional integration in preclinical models of heart disease. We have developed protocols to differentiate hPSCs to endothelial cells and cardiac fibroblasts and demonstrated that the inclusion of these cells during cardiomyocyte biomanufacturing accelerates the acquisition of maturation phenotypes such as morphology, sarcomere protein expression, and calcium handling in the cardiomyocytes. Importantly, these heterotypic cell interactions must be provided to cardiac progenitor cells, allowing the cell types to co-differentiate. To reduce costs and improve the scale of cardiomyocyte biomanufacturing, we have transitioned 2D cardiomyocyte differentiation to 3D, reducing cost by approximately 85% and permitting the manufacturing of greater than one trillion cardiomyocytes in a 300 mL spinner flask bioreactor. To improve biomanufacturing process robustness, we have performed a multi-omic characterization of differentiating cardiomyocytes and utilized unbiased data analytics to identify genes, proteins, and metabolites that when measured before day 5 predict successful vs. failed batches at day 15, determined by the percentage of cells expressing cardiac troponin T. We envision that these multivariate predictive critical quality attributes can be used to more quickly identify failed batches and eventually lead to closed-loop control strategies to improve biomanufacturing process robustness.

- **Effective Strategies for Hierarchically Structured Polymeric Materials**

Numerous natural materials have properties and performances that have inspired, intrigued, and motivated engineers. Examples include plant surfaces that are self-cleaning, adhesives that persist in aqueous environments, as well as insect shells that can harvest water from fog. Common amongst these natural materials are hierarchical structures, ranging from macromolecular design up to microscopic features and patterning. Unfortunately, an ongoing challenge with bio-inspired and bio-mimetic materials is identifying straight-forward, versatile techniques to recapitulate these intricate and complex designs. Research in Caroline Szczepanski's group confronts this challenge using strategies based on polymer chemistry and polymer engineering to yield multi-scale ordering that improves performance for applications in coatings, adhesives, and biomaterials. This talk will highlight recent work from the Szczepanski group, including studies on how localized, in situ stress gradients can be leveraged to create multi-scale, hierarchical structures at an interface. Additionally, recent efforts employing bio-inspired chemistries to improve dental adhesive performance will also be presented.

- **Machine Learning Meets First Principles and Big Data: Toward a Periodic Table of Materials and Reactions**

Computational algorithms are now powerful enough that they can predict many properties of materials and chemical processes before they are synthesized/performed. By implementing and developing new approaches to calculate materials and chemical properties in supercomputers, the Mendoza group has predicted over 300,000 materials for energy

capture, conversion, and storage (e.g., batteries and catalysts). The computations predicted several new materials that were later synthesized and tested in the lab. The in-silico creation of our large amount of materials has prompted us to create our own type of atlas of materials and reactions. We have implemented different machine learning methods to find further (materials or reaction) design principles. Some of the applications of the design principles of materials have been used toward developing an alternative way to generate and store energy (e.g., next-generation Li-batteries, H₂ storage), prediction of materials with new properties (mechanical and electronic), and chemical reactions paths (CO₂ reduction, artificial photosynthesis).

Pre-registration for the forum is requested. Please register for the event at [2022 ChEMS Research Forum](https://2022chemsresearchforum.org/). For more information, call the MSU ChEMS Department at 517-355-5135, or send an inquiry by email to chems@egr.msu.edu.

ArtWalk Central at the CMU Museum, August 25

Gina Malczewski, Director and Outreach Committee, Midland Section ACS

ArtWalk Central

Colorful Chemistry - The Science of Art

**Come celebrate the FINAL week of
Art Walk Central at the CMU Museum!**

Explore the amazing ways art and science intersect with several hands-on activities led by Art Reach of Mid-Michigan, the Midland Section of the American Chemical Society **AND** CMU Museum Studies students.

View the museum's newest exhibit!
*A Century of Science & Service: Midland
Section, American Chemical Society.*

Register for this FREE event: <https://forms.office.com/r/d01qwYEQ06>



Date/Time: Thursday, August 25 from 5-7pm

Location: CMU Museum

Rowe 124- 650 E. Bellows Street

Parking in Lot 14 (next to Rowe Hall)

Questions?
Contact Rebecca Petrone
Call: 989-774-3176
Email: galla1ra@cmich.edu

ART REACH
Of Mid Michigan



**MUSEUM OF CULTURAL
& NATURAL HISTORY**
CENTRAL MICHIGAN UNIVERSITY



ACS
Chemistry for Life®

Testing the Limits of Recycling – Part II

Mark Jones, Director and 2020 Chair, Midland Section ACS

Editor's note: This article is reprinted, in part, from the Tuesday, July 19, 2022, issue of *ACS Industry Matters Newsletter*, an online news publication of the American Chemical Society. At the National ACS level, Mark Jones is a member of the ACS Committee on Public Relations and Communications and the National Historic Chemical Landmark Committee.



I never guessed [urine would be so popular](#). I underestimated the interest in my recent experience with [recycling urine](#). Some commended my efforts. Some found they fell short. Some found my efforts humorous. One sent a [Dilbert cartoon](#). Thanks Dee. Several correctly pointed out failings.

A dime-a-day proved too little for me to continue my efforts. Some cried foul. I pay a deposit on bottles and cans in Michigan. Recycle my daily Dr. Pepper can returns exactly a dime-a-day, something I do conscientiously. The blend of [23 flavors](#) provides a yuck factor to some. Not everyone is a fan. For me the only yuck factor is the occasional mess caused by residual liquid when schlepping the cans to the grocery store or experienced while feeding them to the recycling machine. The yuck factor and effort are minor compared to urine, with the 6-8

times per day manually capturing urine and the daily application in the yard.

Others correctly questioned my premise that recycling should be value added since recycling of other materials is something I pay for. There is no immediate monetary value created for me for my household recycling. My can recycling just gets my deposit back. It doesn't truly pay me. There is no immediate return for most of the recycling I do. I balked at continuing urine recycling due to a lack of return, yet my participation in curbside recycling actually costs me money. I am holding urine to a different standard.

Before diving in, why we recycle warrants some discussion. Recycling is now part of our general solid waste handling. Placing something into either my trash or recycling bin keeps trash out of the environment. I am, by and large, perfectly happy when something ends up entombed in my local landfill. I am a little happier thinking things stay in use through recycling. My primary motivation for recycling is the avoidance of entombing valuable materials, reducing overall societal waste.

Materials I recycle are given away. Any profits made from the material placed in my recycle bin don't directly flow to me, they flow to Republic Industries, the service used by my local municipality. I actually pay to have recycling picked up. Republic generates revenue from charging me for pick-up and sales of the recyclate. Their costs include transportation, sorting, cost of sales, and disposal of the waste unfit for recycling. The [Republic annual report](#) shows less than 4% of their total revenue comes from sales of recyclate. More than 76% come from collection. \$187 per ton was the 2021 average sale price for recycled materials, excluding glass and organics, up from \$96 in 2020. That is a big deal. It signals the market for recycled materials is improving. Republic reaps a \$22 million boost in revenue for every \$10/ton increase in the price paid for recyclate. There are some less good signals. 80% of what was recycled was paper. Our societal focus is on plastics, yet recycling there is still lagging. \$187 per ton may sound big, but it is less than a dime-a-pound.

Urine recycling generates a small economic benefit directly to me. Attempting to value something I give away is admittedly silly. I can look downstream at the prices those materials command to make me feel a bit better about my efforts. It is a bit of a downer. Most of what I recycle is worth less than a day's urine. The [thick weekend newspaper](#) is only worth a penny as it exits the [MRF](#), about the same as a steel can, 3-4 copies of C&E News, and a PET water bottle. The wad of bags deposited at the grocery store are worth about the same. Were it not for the deposit, aluminum cans are worth 3-4¢. Glass is pretty much worthless. Clear HDPE milk jugs are most valuable at 9¢, now [more valued than virgin production](#). The value in the recycle bin as I drag it to the street every two weeks is not far removed from the value two weeks of urine.



Recycling and trash are two nearly identical bins at my house. The effort is nearly the same irrespective of which bin is used. I put more effort into recycling films, but it is still a small incremental effort. For urine recycling to work, it has to be reduced to a small incremental effort. Imagining the [infrastructure for large-scale recycling](#) is difficult. I can't imagine dragging a urine bin to the street with my recycle bin, but I can't imagine a separate urine sewer system either. My urine recycling efforts were too much extra effort for me. They also failed to really put the nutrients back into food production. A lot of work and still flawed.

Additional analysis has not swayed my opinion. My manual intensive urine recycling effort is not a long-term fix. Urine will remain on the list of recyclables that I don't recycle, in spite of the value.

Please Consider the Midland ACS Scholarship Fund in Your 2022 Giving!

Gina Malczewski, Director and Scholarship Committee, Midland Section ACS

Last year in May, **Dr. Wendell and Marcia Dilling** (photo at right) issued a challenge relative to growing the Midland ACS Scholarship Fund. Thus far, over \$7,100 has been added to the fund which, with the promised match from the Dillings, will bring the total fund to \$79,300. With an additional match of \$10,800 from the Dillings and \$9,900 from other contributions we can reach our goal of \$100,000.



The Midland Section ACS has been proud to offer scholarships to deserving undergraduate students majoring in a chemical science since 2002. Annually, two to four scholarships are awarded to candidates who have graduated from a high school in one of the Section's five counties (Bay, Midland, Saginaw, Isabella, and Gratiot), are studying at a Michigan university, and are ideally intending to pursue a career in some aspect of chemistry or chemical engineering. Selections are made by a committee and are based on academics, service and extracurricular contributions, and an essay on the student's sources of motivation as well as future plans. Past scholarship recipients are often highlighted in issues of the *Midland Chemist*.

Awards usually range from \$1,000-2,000, depending on the financial performance of the Midland ACS Scholarship Fund (#399) administered through the Midland Area Community Foundation. A long-standing goal of the Section has been to raise the base amount to \$100,000 to serve more students.

Wendell and Marcia Dilling, both chemists and long-time supporters of the Midland Section ACS, are prepared to help us reach that goal by donating up to \$18,000 as part of a Challenge Grant to the Scholarship Fund, which currently stands at \$79,300. **They will match 1:1 any new contributions to the fund at the Midland Area Community Foundation over the next couple years.**

Please consider contributing to this worthwhile cause. **Your donations will help shape the future of chemistry!** If you have any questions about contributing to the Midland ACS Scholarship Fund, please call the Midland Area Community Foundation at 989-839-9661. Thank you.

An online donation form can be found through the following link:

[Midland Section American Chemical Society Endowed Scholarship Fund #399](#)

In Memoriam – Etcyl Blair

Steve Keinath, Co-Editor, The Midland Chemist

Editor's note: The obituary notice for Etcyl Blair as it appears below is reprinted, in part, from the Weekend, Saturday-Sunday, July 23-24, 2022, issue of the *Midland Daily News*. Etcyl was a long-time member of the American Chemical Society and according to Midland Section ACS Director and Historian Wendell Dilling, he was very active in the ACS for someone so highly placed in the Dow Chemical Company.

He served as Secretary of the Midland Section ACS in 1957, Chair-Elect in 1958, and Chair in 1959. In 1977, he was recognized with the Midland Section ACS's most prestigious award, the Outstanding Achievement and Promotion of the Chemical Sciences Award. In 1999, he was named a co-recipient (along with Ray Rigterink and Art Sexton) of the National ACS Heroes of Chemistry Award.



Etcyl Howell Blair, 99, of Grand Rapids, formerly of Midland, died at his Beacon Hill home early Monday morning, June 20, 2022. Son of the late Tunice and Ruby (Wilson) Blair, he was born in Wynona, OK, on October 15, 1922. He spent his early childhood in Oklahoma before moving to Kansas where he stayed through college. While attending Southwestern College in Winfield, KS, he enlisted in the US Air Force. Because of color blindness he was later assigned to the Army's Chemical Warfare section at Camp Detrick, Maryland. After WW II, he continued his higher education, utilizing the GI Bill of Rights and graduating with his PHD from Kansas State University, in Manhattan, KS. In 1974, he was awarded an honorary Doctor of Science degree by Southwestern College, Winfield, KS.

The beginning of Etcyl's Dow Chemical career was as a chemist in the Organic Research Laboratory in 1951, specializing in the synthesis of organophosphate compounds. This work led to the development of several important agricultural chemical products. Advancing through leadership roles in the E.C. Britton Research Laboratory, he was then named Manager of Research and Development for Agricultural Products in 1968. In 1971, he became Director of Research for Agricultural Organics. In 1973, he was appointed Director of Health and Environmental Research for Dow Chemical USA. Etcyl became a Vice President of the company in August 1978. His formal retirement date was January 31, 1986, although he continued to represent the company until October of that year.

Etcyl was active in several national and international trade organizations. Both these memberships and his role at Dow took him to Europe, the Soviet Union (as it was then known), Australia, the South Pacific, South America, Japan, China, Africa, the Middle East, and elsewhere. Learning about other cultures was fascinating to Etcyl and his wife Ruth, both avid travelers. He was awarded over 20 patents in the field of organophosphorous chemistry, published papers, and co-authored several books. He loved his job. He found it challenging but rewarding.

Classical music was Etcyl's passion. During his childhood, he often spent four hours a day practicing his violin. From his options for employment in 1951, he chose the Dow Chemical Company because there was a Dow orchestra where he could play his violin. Even after retiring, he served on the Midland Symphony Orchestra board for years. When Etcyl and Ruth were moving to Grand Rapids in July 2015, members of the MSO orchestra played a "flash mob" concert at their home in Midland. The street was blocked off, chairs were placed on the lawn, and the event was a "Goodbye" to remember.

During his undergraduate studies, Etcyl met the former Ruth May Gross and they were united in marriage on September 4, 1949, in Winfield, KS. He is survived by his wife Ruth, sons David (Cheryl) Blair, Ronald (Sandra Yeager) Blair, and Kevin (Teresa) Blair; as well as seven grandchildren and six great grandchildren. In addition to his parents, Etcyl was preceded in death by his brother Tunice Keith Blair.

A Celebration of Life was held on Thursday morning, July 28, 2022, in the auditorium at Beacon Hill Retirement Community, 1919 Boston Street, SE, Grand Rapids, MI 49506. Pastor Richard Verkaik, of Hudsonville, MI, officiated the service.

A casual "Meet and Greet" with the family occurred at 10:00 AM on Thursday, July 28, 2022, followed by the service at 11:00 AM. Interment was the next day, Friday, July 29, 2022, at the Midland Cemetery. Following the 1:30 PM Committal Service at the Midland Cemetery, those wishing to visit with the family gathered in the parlor at the First United Methodist Church of Midland, at the corner of Main and Jerome Streets.

In lieu of flowers, charitable donations to the Midland Center for the Arts, 1801 West St. Andrews Road, Midland, MI 48640, may be considered. Arrangements for Etcyl have been entrusted to the care of Ware-Smith-Woolever Funeral Home, 1200 West Wheeler Street, Midland, MI, Phone: 989-631-2292, <https://www.wswfh.com/>.

In Memoriam – Sheldon Harold Messing
Steve Keinath, Co-Editor, *The Midland Chemist*

Editor's note: The obituary notice for Sheldon Messing as it appears below is reprinted, in part, from the Friday, July 29, 2022, issue of the *Midland Daily News*. Sheldon joined the American Chemical Society in 1968, and at the time of his passing he was a 54-year member of the ACS.



It is with great sorrow that Sheldon (Shelly) Messing passed away on July 25, 2022. Sheldon was predeceased by his parents Sara (Dietz) Messing and Ben Messing.

Sheldon was the beloved husband of Carol for 54 years, the father of daughters Robyn Gazall (Gary) and Lauren Reburn (Maurice), and brother of his sister Linda Cohen (Phil).

Sheldon earned his PhD at The Polytechnic Institute of Brooklyn which is now the Tandon School of Engineering at NYU. After graduation Sheldon worked for the Dow Chemical Company for 36 years and retired as the Senior Manager for Contract Manufacturing.

Sheldon's greatest joy was being with his family. He was a mentor and role model for his children. Sheldon was a devoted husband who loved to travel all over the world with his wife. He also enjoyed golfing and biking.

Sheldon was a religious community leader. For 12 years, Sheldon served the Jewish community as the President of Temple Beth El in Midland. He was very instrumental in the planning, managing, and directing of all Temple matters. As a result of his work, the Jewish community benefitted from grants enabling the community to grow and provide Jewish cultural events throughout the years.

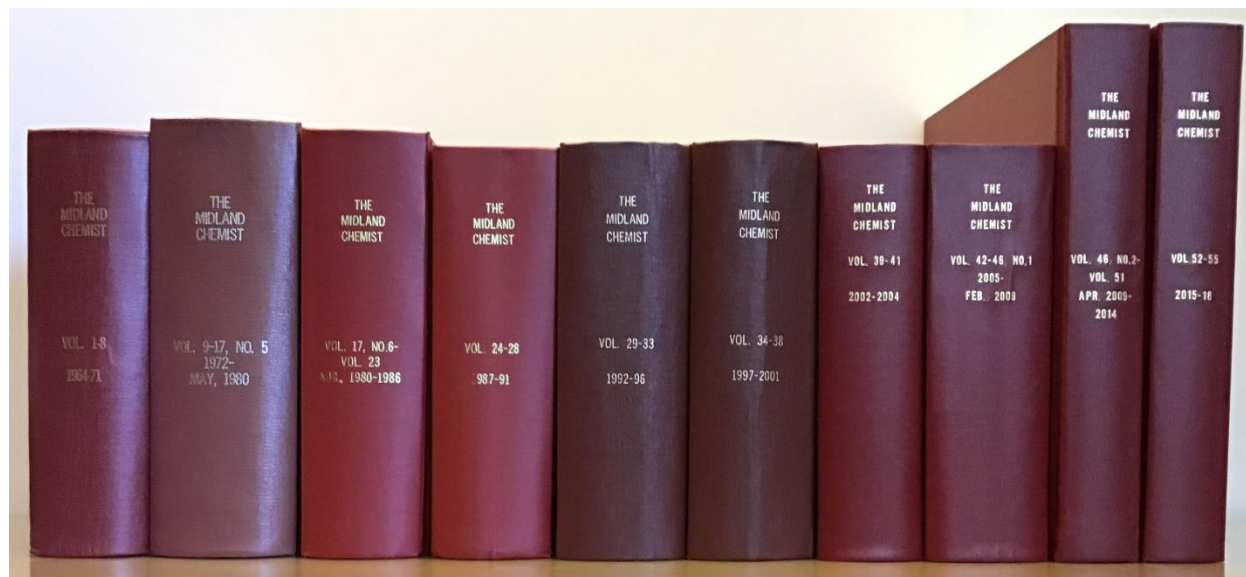
As a result of his and his committee's efforts, the Jewish community now has the opportunity to be buried in the Midland cemetery. Sheldon was called upon to act as a spiritual leader, and he conducted many Jewish funerals in Midland.

Our beloved husband and father will be greatly missed. May his soul rest in peace. In lieu of flowers, please consider giving a donation to the Humane Society of Midland County or to your favorite charity.

Ware-Smith-Woolever Funeral Home (1200 West Wheeler Street, Midland, MI, Phone: 989-631-2292, <https://www.wswfh.com/>) is honored to be assisting the Messing family.

In Past Issues of *The Midland Chemist*

Wendell L. Dilling, Director and Historian, Midland Section ACS



From these volumes . . .

50 Years Ago, *The Midland Chemist* 1972, 9, No. 6, 2.

In *September Meeting, An Open Meeting on The Scientific and Professional Affairs of the Society* by Linneaus C. Dorman, Councilor, Midland Section: "The Midland Section of the ACS has scheduled a meeting for Tuesday evening, September 26, 1972, at 7:30 p.m. in The Camelot Room of the Executive House.

Traditionally, the Section's monthly meetings have always had a "business" meeting preceding the lecture by a guest speaker, the usual feature of the evening. Members in attendance were usually there because of an interest in the speaker and not because of ACS business per se. Hence, little business, if any, was discussed at these meetings.

The September meeting will be a business meeting through in an informal setting. This meeting will be an ideal opportunity for the members of the Section to make their concerns known to the officers and other members of the Section, to help the Board of Directors formulate plans for the 1972-73 year, for the Councilors to report on the proceedings of the fall National ACS meeting and for the officers to obtain a first hand input on what the membership wants."

40 Years Ago, *The Midland Chemist* 1982, 19, No. 7, 14.

In *Kipping VIP's Receive Gifts*: "During the 14th Central Regional Meeting, held at Northwood Institute in June, an Organosilicon Symposium was held which brought together all 18 of the past winners of the Frederic Stanley Kipping Award. Travel arrangements were made by Nancy Higgins of Dow Corning. In honor of this event, special framed, custom color photomicrographic prints were prepared for twenty three VIP attendees by Arnie Kolb. Arnie's work has been displayed at Northwood Gallery and other galleries and was featured as the cover art for the May issue of the *Midland Chemist*.

The 16" x 20" prints were presented at the reception immediately following the Kipping Award dinner, held at the Midland Center for the Arts. Doug Drelich, Meetings Administrator for Dow Corning Corporation, arranged for the dinner and reception, and for a temporary gallery to be set up in the Founder's Room of the Art Center. He and Arnie Kolb planned and installed this lighted exhibit which highlighted the "Inner Beauty of Silicones." Each unique picture of crystalline silicon compounds was glassed, framed and bore a nameplate inscribed for the recipient. In addition, a text was printed for each photo which featured the title of the work, the recipient's name, the empirical formula and the structure of the silicon compound photographed. The preparation technique, and the photographic method used, as well as the artistic interpretation as expressed by the artist himself, were also described.

The Kipping VIP's were allowed to take their gifts with them immediately after the dinner, or could choose to have them mailed later, in special cartons designed and provided by Dow Corning. Arnie's special collection of art based on silicon research compounds was a fitting memento for the special collection of organosilicon chemists who came to Midland from England, Scotland, Germany, Japan, China, Canada, and the United States."

30 Years Ago, *The Midland Chemist* 1992, 29, No. 6, 3.

In "*Councilors' Report from Washington, D.C., National Meeting* by Linneaus C. Dorman and Wendell L. Dilling: "ACS President Ernest L. Eliel presented the 1992 Awards for Outstanding Performance by Local Sections in five size categories (for 1991 activities) at the local section officers and tour speakers reception. Peter Dreyfuss, 1991 Midland Section Chairman, accepted one of the awards, for the Midland Section, in the medium large category. The Rochester Section was a co-winner in this category. We would like to congratulate all the Midland Section officers, committee chairpersons and members, and others who contributed to the Midland Section's winning this award. At the Council Meeting we were privileged, for the second year in a row, to be recognized as representatives of the Midland Section when the award winners were announced."

20 Years Ago, *The Midland Chemist* 2002, 39, No. 5, 11.

In *Congratulations to MMTG!!!* by Debbie Bailey: "At the national ACS meeting in Boston, MMTG will be receiving an ACS "Salutes to Excellence" award for our TAG's contributions to the National Chemistry Week program over the past several years. A message from V. Michael Mautino (2002 TECH Chair and ACS NCW Task Force Member) reads:

'Please extend my congratulations to all of your TAG members for helping the ACS's NCW program complete its mission 'to reach out to the public, particularly elementary and secondary school children, with positive messages about chemistry; to make a positive change in the public's impression of chemistry; to promote a mechanism for effectively mobilizing ACS local sections; and to motivate the ACS membership through local section activities.' "

10 Years Ago, *The Midland Chemist* 2012, 49, No. 4, 6.

In *ACS Day at the Midland County Fair!*: "Sponsored by the Midland Section of the American Chemical Society, Monday, Aug 13, 2012, FREE Hot dogs, chips, drinks to ACS/MMTG members, families and friends, 4:30-7:30 pm, tan picnic bldg. north end of Grandstand, FREE! Popcorn, Ride 'til you drop! Bands good 1-11 pm for just \$14.00! FREE! FREE SCIENCE DEMOS 4:30-7:30 pm, Tan picnic bldg. north

end of Grandstand. To purchase tickets in advance contact: Michelle Rivard 496-5399 (Dow Corning) or Amy Tesolin-Gee 636-1903 (Dow), Tickets will also be available for day of starting @ 1pm @ Tan bldg”



Upcoming Dates, Events, and Other Updates

- August 1-5 (Monday to Friday, 9:00 AM to Noon, most days) – FREE In-Person STEAM Stew V Summer Camp: “H2-Whoa!” at MSU St. Andrews, in Midland. For more information or any questions, please contact Gina Malczewski at reginamalczewski@gmail.com, or Clare Light at lightcla@msu.edu.
- August 1 (7:00 – 8:00 PM) – Hybrid Midland Section ACS Board meeting, MSU St. Andrews, Midland (in person), and via a WebEx conference call connection at [Webex Board Meeting - August 2022](#), Meeting number: 2651 874 4771, or by phone at Phone number: 650-215-5228, Access code: 2651 874 4771.
- August 11 – **10AM DEADLINE** to purchase discounted ride bands for the Midland County Fair. The \$25 ride bands are good for all day, any day. Contact Hunter Woodward at wwoodward@dow.com. See flyer in this newsletter for details.
- August 17 (7:30 PM) –Dow Gardens entomologist Elly Maxwell will speak about bees and other stinging insects. Creative 360, 1517 Bayliss Street, Midland.
- August 18 (12:00 – 1:00 PM)– Seniors Chemists’ Lunch. Creative 360 Lawn and Gardens, 1517 Bayliss Street, Midland. See article in this newsletter for additional information.
- August 18 (4:30 – 7:30 PM) – ACS Day at the Midland County Fair. Barn 37 by the Grandstand, Midland County Fairgrounds. See flyer in this newsletter for details.
- August 21-25, 2022 – ACS Fall 2022 National Meeting and Exposition, Chicago, IL. This meeting is being planned as an in-person and virtual hybrid meeting. Meeting theme: *Sustainability in a Changing World*. For more information, please see [ACS Meetings & Expositions - American Chemical Society](#).
- August 23 (9:00 AM – 5:00 PM) – 18th Annual MSU ChEMS Department Research Forum, Huntington Club at Spartan Stadium, 325 West Shaw Lane, East Lansing. Pre-registration for the forum is requested. Please register for the event at [2022 ChEMS Research Forum](#). For more information, call the MSU ChEMS Department at 517-355-5135, or send an inquiry by email to chems@egr.msu.edu.
- August 25 (5:00 – 7:00 PM) – ArtWalk Central. Colorful Chemistry – The Science of Art. Central Michigan University Museum, Rowe 124, 650 E. Bellows Street, Mount Pleasant. See flyer in this newsletter for additional information. Contact Rebecca Petrone at 989-774-3176 or galla1ra@cmich.edu for questions.
- August 31 – Save the date. Creative 360 will offer a session on “Heathy Eating.” 1517 Bayliss Street, Midland.

- September 12 (7:00 – 8:00 PM) – Hybrid Midland Section ACS Board meeting, MSU St. Andrews, Midland (in person), and via a WebEx conference call connection at [Webex Board Meeting - September 2022](#), Meeting number: 2651 874 4771, or by phone at Phone number: 650-215-5228, Access code: 2651 874 4771. **Please note: This Board meeting is being held on the second Monday of September, not the usual first Monday of most months due to the Labor Day holiday.**
- September 14 (7:00 – 8:30 PM) – MSU St. Andrews Family Astronomy Night free virtual event programing resumes after taking a break for the summer months. Presentation topic: TBD. Please see <https://standrews.msu.edu/family-astronomy-night/> for more information about these ongoing monthly programs and to access prior archived presentations.
- October 3 (7:00 – 8:00 PM) – Hybrid Midland Section ACS Board meeting, MSU St. Andrews, Midland (in person), and via a WebEx conference call connection at [Webex Board Meeting - October 2022](#), Meeting number: 2651 874 4771, or by phone at Phone number: 650-215-5228, Access code: 2651 874 4771.
- October 29 (Save the Date) – Midland Section ACS Fall Scientific Meeting, Curtis Hall, Saginaw Valley State University. Meeting theme: *A Touch of Chemistry*. For any questions, please contact the FSM General Chair Hari Katepalli at hkatepalli@dow.com or fsm@midlandacs.org.
- November 3 (Save the Date) – Midland Section ACS Diversity & Inclusion Committee program, *A Day in the Life of an Industry Scientist*, Midland Center for the Arts, an event in partnership with the University of Michigan (Flint) and Kettering University. For more information, please contact Anne-Catherine Bedard at diversity@midlandacs.org.
- November 7 (7:00 – 8:00 PM) – Hybrid Midland Section ACS Board meeting, MSU St. Andrews, Midland (in person), and via a WebEx conference call connection at [Webex Board Meeting - November 2022](#), Meeting number: 2651 874 4771, or by phone at Phone number: 650-215-5228, Access code: 2651 874 4771.
- December 5 (7:00 – 8:00 PM) – Hybrid Midland Section ACS Board meeting, MSU St. Andrews, Midland (in person), and via a WebEx conference call connection at [Webex Board Meeting - December 2022](#), Meeting number: 2651 874 4771, or by phone at Phone number: 650-215-5228, Access code: 2651 874 4771.



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>. Current and past issues are available at midlandchemist.org.

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