

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

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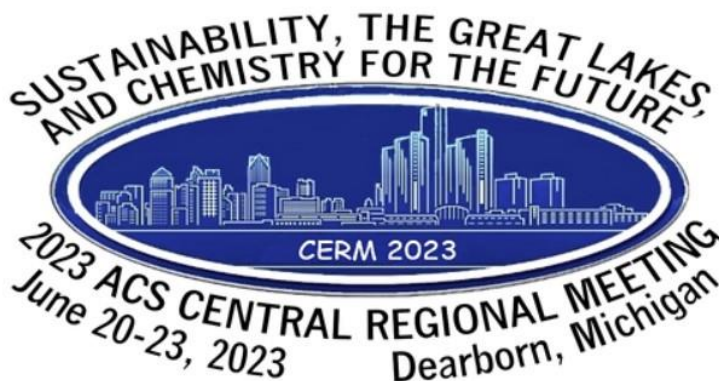
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2023 ACS Central Regional Meeting – Call for Award Nominations

Steve Keinath, Co-Editor, The Midland Chemist

Editor's note: The material included within this article was provided in an email message, dated Wednesday, March 22, 2023, to members of the Central Region of the American Chemical Society.



The **2023 Central Regional Meeting (CERM)** will be hosted by the Detroit Local Section of the American Chemical Society and will focus on the chemistry being pursued within the region. The meeting theme is *Sustainability, the Great Lakes, and Chemistry for the Future*. In addition to symposia and poster sessions concerning organic chemistry, inorganic chemistry, analytical chemistry, physical chemistry, biochemistry, and chemical education, we hope to have sessions relating to advances in battery chemistry and electric automobiles, cannabis chemistry, hydrogen fuel cells, chemical safety, and a circular economy. A career fair and several social events will also be part of the programming.

CALL FOR AWARD NOMINATIONS

The ACS prides itself on honoring the great people among us. From achievements made by those in a lifelong career of chemical research, to those who pass on their knowledge and understanding to the next generations, the ACS recognizes outstanding chemists to thank them for their devoted service to our field.

E. Ann Nalley Central Region Award for Volunteer Service to the American Chemical Society recognizes the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their Regional Activities. **The nomination deadline for this award is April 14, 2023.**

ACS Division of Chemical Education Central Region Award for Excellence in High School Teaching recognizes, encourages, and stimulates outstanding teachers of high school chemistry in the Central Region. **The nomination deadline for this award is April 14, 2023.**

For more information about these awards and the nomination process, please visit the following 2023 CERM website: [Home | CERM 2023 \(acscerm2023.org\)](https://www.acscerm2023.org).



2023 Great Lakes Bay Area Project SEED Summer Internships

Michell Rivard, Outreach Committee, Midland Section ACS

The Midland Section of the American Chemical Society is now accepting student applications for our PAID summer internships program! **The deadline to submit an application is Friday, April 21, 2023.** Please see <http://www.acs.org/projectseed> for more information about the ACS Project SEED program.

This opportunity is open to rising high school juniors, seniors, and 2023 high school graduates that have taken at least one year of chemistry and qualify financially (see the Financial Eligibility Requirements below).

This year, we are planning to offer up to **18 PAID** STEM Summer Research Internships at area colleges and universities. First-time SEED students will earn \$3,200 during a 7- to 10-week program. Both in-person and virtual internships are available.

In-Person Internships:

- Central Michigan University – 4 internships
- Saginaw Valley State University – 2 internships
- Delta College's Downtown Midland Center – 4 internships
- Michigan State University's St. Andrews location, in Midland – Up to 6 internships (rising Seniors and 2023 graduates only)

Virtual Internships:

- Central Michigan University – 2 internships (reserved for individuals not close to a physical SEED experience location)

Methods for Demonstrating Financial Eligibility:

Students must provide one of the following to demonstrate financial eligibility:

- A copy of a 1040 tax form showing that the annual adjusted gross income within the last two years has been 200% or less of the [Federal Poverty Guidelines](#) for household size.
- Documentation showing that the student is eligible for a Free and Reduced Lunch Program (FRLP) at his/her/their school.
- Documentation showing that the family is eligible for Special Supplemental Nutrition Program for Women, SNAP, or WIC for Infants and Children (also referred to as EBT or food stamps).
- Documentation showing participation in a TRIO program such as Upward Bound or other programs geared towards socioeconomically challenged families.

Please contact Michelle Rivard at michelle.rivard@dow.com for any questions or concerns. Thank you.

Note: The deadline to submit an application has been extended to Friday, April 21, 2023

GREAT LAKES BAY AREA PROJECT SEED INTERNSHIPS



Midland Local Section of the American Chemical Society is excited to announce that we have **14-18 PAID** summer research internships available this summer at Saginaw Valley State University, Central Michigan University, Michigan State University –St. Andrews site (Midland), and Delta College Downtown Midland Center.

Interested in science and chemistry? Apply for a summer internship!
Application is open **Feb 8 to March 31, 2023**

ONLINE APPLICATIONS DUE BEFORE MARCH 31, 2023

For more info on program dates, eligibility criteria, and to apply visit www.acs.org/projectseed or email project-seed@midlandacs.org

Program Benefits:

- Paid internship (\$3,200-\$3,800)
- Hands-on research experience in a lab
- Great addition for your resume and college application
- Scholarship opportunities for college (\$5,000-\$20,000 in scholarships over 1-4 years)





2023 Summer Research Application

June 19 through August 4
Application deadline April 21



The MSU St. Andrews Summer Research Experience is a unique hands-on program where you will participate in chemistry, environmental science, materials science, or 3D printing projects under the direction of MSU St. Andrews faculty. The program is both a great learning experience and a real differentiator in the college application process. St. Andrews program participants tell us that this program was a gamechanger for their appreciation of science, and their college-readiness.

Rising high school seniors and 2023 graduates from the Great Lakes Bay Region, who are at least 16 years of age are invited to apply to participate in this unique summer learning experience.

This summer's program will run seven weeks, Monday through Thursday, 9:00 am to 4:00 pm, June 19 through August 4, at MSU St. Andrews in Midland, Michigan.

Cost \$900. Scholarships available to eligible students through the ACS SEED Program.

Please share this information with prospective students. **Application deadline is Friday, April 21, 2023.**

Apply Today!

2023 ACS Spring Awards Banquet Reservations – RSVP Deadline, April 25
Diana Deese, Awards Committee Chair, Midland Section ACS

ACS Recognition Dinner

Wednesday, May 3rd, 2023, 5:30 p.m. to 9:00 p.m.

Great Hall Banquet & Convention Center at Valley Plaza Resort

5121 Bay City Road, Midland, Michigan

Program:

5:30 p.m. Cash Bar and Social Time

6:00 p.m. Dinner

6:45 p.m. Featured Speaker

7:15 p.m. Awards Presentations

Educators, students, ACS members, volunteers, industry colleagues, and 50-, 60-, 70-year ACS members/retirees will be recognized for their outstanding achievements at this 32nd annual event. Our special guest speaker will be Dave Devore Ph.D., Principal Research Fellow, Core R&D - Dow, who will entertain us with a presentation titled *“The Importance of STEM, Scientific Curiosity, and Its Impact on Our Lives and the Community”*. Mark your calendar and join us in support of our award recipients, to connect with colleagues, or just to mingle with a diverse group of people passionate about chemistry and the related sciences!



The cost of the dinner is \$20.00 per person and includes a plated chicken dinner, dessert, and beverage. A pre-dinner cash bar will be available. Your dinner reservation request must be received by April 25th, 2023, and this event is open to the public.

Payment options will be via the ACS Midland Section website www.midlandacs.org and using the SignUpGenius button to RSVP (to conveniently pay ahead of time), at the door, or by mail using the address indicated below. Please be sure to note any dietary considerations on your RSVP. Dress is business casual. This event is sponsored by the Midland Section of the American Chemical Society. For further information, contact Diana Deese at (989) 636-9915.

To reserve your spot by mail, return this form with payment (\$20.00/person) by **April 25th, 2023**, to Diana Deese, The Dow Chemical Company, 1897 Building, E-bay East: E65, Midland, MI 48667, or RSVP via e-mail to dkdeese@dow.com. If paying at the door, you must still RSVP to Diana by April 25th.

Name(s): _____

Affiliation: _____

Address: _____

Phone/E-mail: _____

ACS member? Yes / No (indicate by circling your member status)

Dietary Considerations: _____

Enclose payment of \$20.00 per person. Checks should be made payable to “Midland Section ACS”.



ACS Fall 2023 National Meeting – Harnessing the Power of Data

Steve Keinath, Co-Editor, The Midland Chemist

Abstracts for oral and poster presentations for the ACS Fall 2023 National Meeting & Exposition are now being accepted. The meeting theme, **Harnessing the Power of Data**, will be at the core of programming. Sessions for the hybrid meeting (in-person & virtual) will be held in San Francisco, CA, and virtually, August 13-17, 2023. Those who wish to submit an abstract will have the option of selecting a virtual or in-person abstract submission.

ACS Meetings & Expositions bring together chemistry professionals, educators, and students worldwide to discover and share research, network, and advance careers. These meetings are an excellent opportunity for professionals and students to showcase their work and connect with colleagues in all areas of chemistry.

Please visit the [ACS Fall 2023 meeting website](#) to find a list of the programming divisions and planned symposia open for abstract submissions. **The deadline to submit an abstract is Tuesday, April 4, 2023.**



Illustrated Poem Contest for Chemists Celebrate Earth Week (CCEW)

Michell Rivard, Outreach Committee, Midland Section ACS

The Midland Section of the American Chemical Society is hosting its annual illustrated Poem Contest tied to Chemists Celebrate Earth Week (CCEW). This year's theme is *The Curious Chemistry of Amazing Algae*.

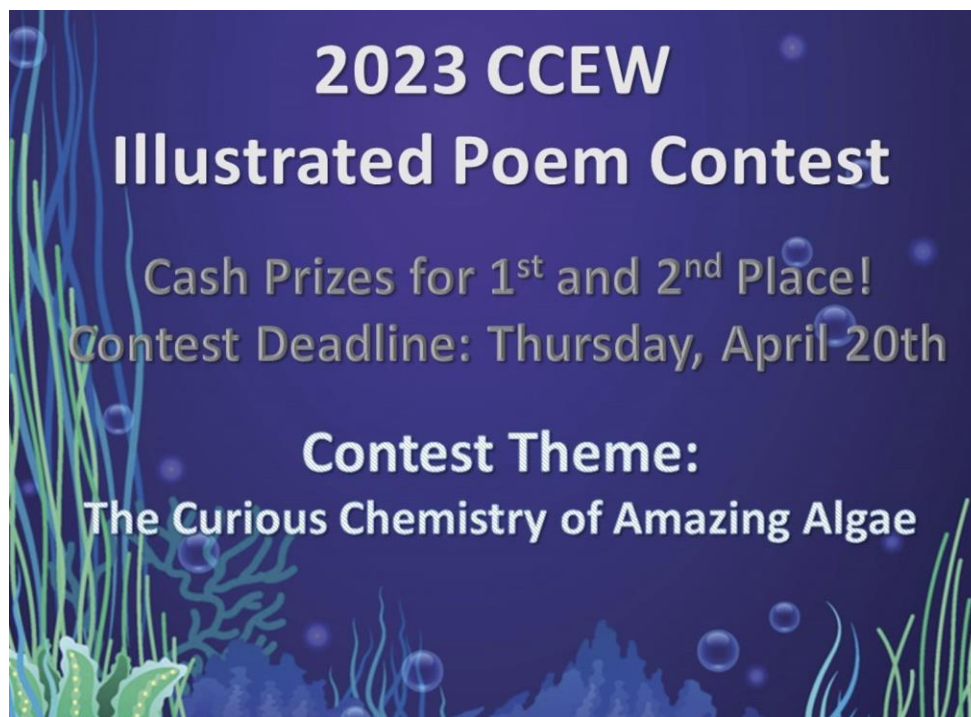
Please go to our website (www.midlandacs.org) and download the contest flyer with the due date and rules, an entry form, and *Celebrating Chemistry* magazine. The magazine is useful for students to get ideas for their poem.

Submitted illustrated poem entries will be displayed at our annual Earth Day Action Expo, on Saturday, April 22, from 11:00 AM to 3:00 PM, at H.H. Dow High School in Midland <https://midlandacs.org/events/earth-day-action-expo-2023/>.

The Illustrated Poem Contest deadline is Thursday, April 20, 2023, at 11:59 PM EST.

There will be cash prizes for 1st and 2nd place winners in each grade category. Winners will also be honored at our annual Spring Awards Banquet event on Wednesday, May 3, 2023, at the Great Hall Banquet & Convention Center, in Midland.

Please contact Michelle Rivard at michelle.rivard@dow.com for any questions or concerns. Thank you.



Earth Day Action Expo 2023, Save the Date, April 22
Gina Malczewski, Outreach Committee, Midland Section ACS

Midland Section ACS Outreach event, "Earth Day Action Expo 2023." Free event at H.H. Dow High School, in Midland. Activities for all ages, and open to everyone. Co-sponsored by Midland Section ACS, Midland Center for the Arts, Midland Recyclers, Dow High Go Green Club, and MSU St. Andrews. Watch here for more details to follow. For more information, please contact Gina Malczewski at reginamalczewski@gmail.com.



2023 Turner J. Alfrey Visiting Professor Lecture Series, June 6
Troy Terwillegar, MSU St. Andrews

We are pleased to announce that Prof. Karen L. Wooley from [Texas A&M University](https://www.tamu.edu/) will be the guest lecturer for the [2023 Turner J. Alfrey Visiting Professor Lecture Series](#).

Date: Tuesday, June 6, 2023 Time: 9:00 AM to 5:00 PM
Location: MSU St. Andrews, 1910 West St. Andrews Road, Midland
Guest Lecturer: Prof. Karen L. Wooley



Professor Karen L. Wooley

Join us at MSU St. Andrews for a full day of lectures with Dr. Karen Wooley of Texas A&M University. Dr. Wooley and her associate, [Ashlee Jahnke](#), will discuss topics related to work being done in the [Wooley Research Group](#).

Karen L. Wooley holds the W.T. Doherty-Welch Chair in Chemistry and is a University Distinguished Professor at [Texas A&M University](#). She studied at Oregon State University (B.S., 1988) and Cornell University (Ph.D., 1993). The first sixteen years of her independent academic career were spent at Washington University in St. Louis, Missouri, and she then relocated to Texas A&M University in July 2009. In addition to her academic positions, she is the co-founder and President of [Sugar Plastics, LLC](#), and Chief Technology Officer of [Teysha Technologies, LTD](#).

Her research interests include the synthesis and characterization of degradable polymers derived from natural products, unique macromolecular architectures, complex polymer assemblies, and well-defined nanostructured materials. She has designed synthetic strategies to harness the rich compositional, regiochemical, and stereochemical complexity of natural products for the construction of hydrolytically-degradable polymers, which have impact toward sustainability, reduction of reliance on petrochemicals, and production of biologically-beneficial and environmentally-benign natural products upon degradation. These materials are expected to impact the global issue of plastic pollution and address challenges resulting from climate change.

Recent awards include election as a Fellow of the American Academy of Arts and Sciences (2015), National Academy of Inventors (2019), American Association for the Advancement of Science (2020), American Institute for Medical and Biological Engineering (2020), and National Academy of Sciences (2020). She was also named as the 2021 Southeastern Conference (SEC) Professor of the Year.

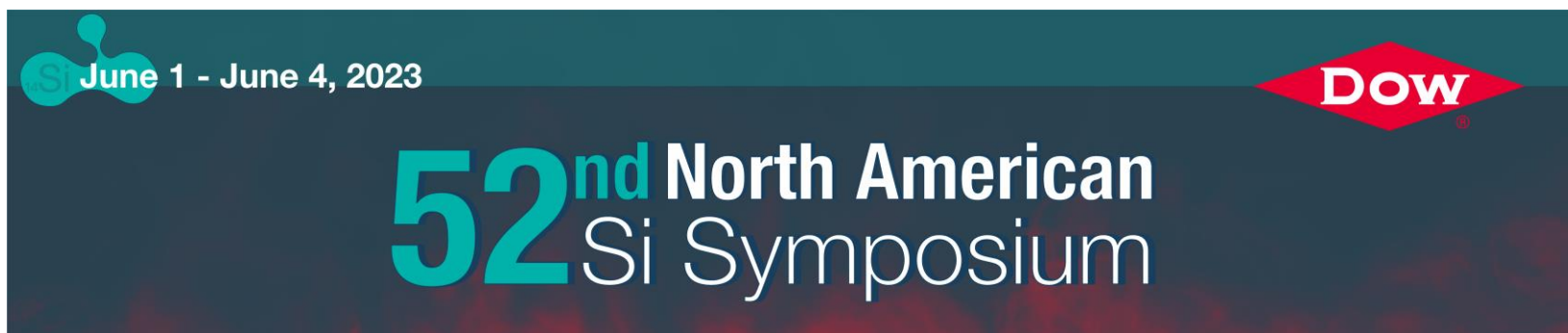
- Lectures will take place in person at MSU St. Andrews, in Midland.
- Networking luncheon included from 12:30 – 1:30 PM in the MSU St. Andrews Rotunda sponsored by the [Midland Section of the American Chemical Society](#).
- Dr. Wooley and her associate, [Ashlee Jahnke](#), will deliver five, 45-minute talks throughout the day, discussing topics related to the [Wooley Research Group](#).
- Time will be allowed for Q&A and discussion.

[Registration is open now through Friday, June 2, 2023, by clicking here.](#)

This is a free event, but pre-registration is required to help plan for the networking luncheon. Please share information about this event with others that may be interested in attending.

Watch here for more details to follow and check back soon for the complete agenda and list of lecture summaries. For more information, please contact Troy Terwillegar at terwil24@msu.edu.

52nd North American Si Symposium, June 1 – June 4
Michelle Cummings, Midland Section ACS



INVITED SPEAKERS

Take a look at our speakers scheduled for this event



Thibault Cantat
CEA, Université Paris -
Saclay



Matthias Driess
Technische Universität
Berlin



Annaliese Franz
University of California,
Davis



Michel Gagne
University of North
Carolina, Chapel Hill



Lutz Greb
Universität Heidelberg



Kenrick Lewis
Momentive Performance
Materials, Inc.



Tom McCarthy
University of
Massachusetts, Amherst



Yumiko Nakajima
National Institute of
Advanced Industrial
Science and Technology



Herbert Roesky
University of Goettingen



Lisa Rosenberg
University of Victoria



Michael Sailor
University of California,
San Diego



Cheuk-Wai So
Nanyang Technological
University



Christine Thomas
The Ohio State University



T. Don Tilley
University of California,
Berkeley



Ryan Trovitch
Arizona State University

Hosted by Dow in Midland, Michigan

<https://web.cvent.com/event/dcf0afdf-fa6f-433e-beba-c065f0d12735/summary>

National Graduate Research Polymer Conference 2023, June 29 – July 1 ***UofM Macromolecular Science and Engineering Program***

The National Graduate Research Polymer Conference (NGRPC) is one of the largest student-run polymer research conferences in the country. This conference series was established in 1994 by the American Chemical Society's Division of Polymer Chemistry (ACS-POLY) to provide polymer science & engineering graduate students the opportunity to present their work, network, and interact with polymer scientists in industry, academia, and government.

National Graduate Research Polymer Conference 2023 **June 29 through July 1, 2023** **Michigan Union, University of Michigan, Ann Arbor**

NGRPC 2023 will be hosted by the [Macromolecular Science and Engineering Program](#) at the University of Michigan. Click [here](#) to meet our organizing committee members.

Midland Section ACS Scholarship Fund Update and Encouragement to Give in 2023 ***Gina Malczewski, Director and Scholarship Committee, Midland Section ACS***

In May of 2021, Dr. Wendell and Marcia Dilling issued a challenge relative to growing the Midland Section ACS Scholarship Fund. At that time, they committed \$18,000 of matching money to grow the fund to \$100,000 by matching dollar for dollar all contributions made to the fund until it reached the target goal.

To date, there have been six contributions amounting to \$1,980.76, and recently Wendell and Marcia honored their matching donation commitment by submitting a check in the amount of \$2,000 to the Midland Area Community Foundation, the entity that holds and manages the Midland Section ACS Scholarship Fund.



Dr. Wendell and Marcia Dilling

Wendell and Marcia have recommitted to their original pledge and will continue to provide matching money until their contribution reaches \$18,000, or perhaps a little more upon future reflection. The long-rang goal remains the same, to increase the Midland Section ACS Scholarship Fund principal balance to \$100,000 to enable offering additional and perhaps larger year-by-year scholarships to well-deserving students across the greater Midland Section ACS region.

Although the current balance in the scholarship fund is a little less than where it stood when Wendell and Marcia issued their matching gift challenge (\$60,458.49 as of mid-September 2022), the investment strategies practiced by the Midland Area Community Foundation remain sound. Since May of 2021, the fund balance has decreased a mere 6.9%, pretty remarkable when considering what many of us have been seeing with the value of our own personal retirement accounts.

Continuing to invest now, when the stock market is in a bear market, means that proportionally lower cost shares of stock can be purchased now that will ultimately produce greater yields when the stock market turns around once again.

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 Midland Section ACS 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 continue to help us reach that goal by donating up to \$18,000 as part of a challenge grant to the scholarship fund. **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 Section 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](#)

Upcoming Dates, Events, and Other Updates

- April 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 - April 2022](#), Meeting number: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.
- April 4 – **Deadline to submit abstracts for the ACS Fall 2023 National Meeting & Exposition**, San Francisco, CA, August 13-17, 2023 (in-person and virtual). Meeting theme: *Harnessing the Power of Data*. For more information, please see [ACS Meetings & Expositions - American Chemical Society](#).
- April 20 – **Deadline to submit entries for the Illustrated Poem Contest for Chemists Celebrate Earth Week (CCEW)**. Theme: *The Curious Chemistry of Amazing Algae*. Please see the accompanying article on page 9 for more information. Contact Michelle Rivard at michelle.rivard@dow.com for any questions and concerns.

- April 21 – **Extended deadline to submit an application for the 2023 Great Lakes Bay Area Project SEED Summer Internship program.** Please see the accompanying article on pages 3-4. Please see <http://www.acs.org/projectseed> for more information about the ACS Project SEED program, in general, and contact Michelle Rivard at michelle.rivard@dow.com for any questions or concerns about the local SEED program experience.
- April 21 – **Deadline for MSU St. Andrews Summer Internship program applications.** Summer internship program dates are June 19 through August 4. Please see the article on page 5. The following webpage offers additional details: [Summer Research Experience – MSU St. Andrews](#). For any other questions, please contact Troy Terwillegar at terwil24@msu.edu or 989 374-9904.
- April 22 (11:00 AM to 3:00 PM) – Midland Section ACS Outreach event, “*Earth Day Action Expo 2023.*” Free event at H.H. Dow High School, in Midland, open to everyone. For more information, please contact Gina Malczewski at reginamalczewski@gmail.com.
- May 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 - May 2022](#), Meeting number: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.
- May 3 (5:30 – 9:00 PM) – Midland Section ACS Spring Awards Banquet, Great Hall Banquet & Convention Center, 5121 Bay City Road, Midland. **Cost: \$20.00 per person. RSVP deadline: April 25.** Please see the accompanying ACS Spring Awards Banquet announcement on pages 6-7 for more details. For more information or any questions, please contact Diana Deese, Midland Section ACS Awards Committee Chair, at dkdeese@dow.com or 989-636-9915.
- June 1-4, 2023 – 52nd North American Si Symposium. Registration requested by Sunday, April 30. To be held at The H Hotel, Midland. Please see the announcement on page 12. For symposium details and to register, see: [PROGRAM - 52nd North American Silicon Symposium \(cvent.com\)](#). For general questions, please email 52siliconsympos@dow.com.
- June 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 - June 2022](#), Meeting number: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.
- June 6 (9:00 AM to 5:00 PM) – 2023 Turner J. Alfrey Visiting Professor Lecture Series program, featuring Prof. Karen Wooley from Texas A&M University, MSU St. Andrews, 1910 West St. Andrews Road, Midland. For more information, please see the accompanying article on pages 10-11. This event is free, but pre-registration is required to help plan for the networking luncheon. To pre-register, please click on [2023 Turner J. Alfrey Visiting Professor Lecture Series](#). For additional information or any questions, please contact Troy Terwillegar at terwil24@msu.edu.
- June 20-23, 2023 – ACS 2023 Central Regional Meeting, Dearborn, MI, hosted by the Detroit Section ACS. Meeting theme: *Sustainability, the Great Lakes, and Chemistry for the Future*. For more information or to submit an abstract, please see [Home | CERM 2023 \(acscerm2023.org\)](#).
- June 29 – July 1, 2023 (Time TBD) – National Graduate Research Polymer Conference 2023, hosted by the [Macromolecular Science and Engineering Program](#) at the University of Michigan. For more information, please see the accompanying article on page 13.
- August 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 - August 2022](#), Meeting number: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.

- August 13-17, 2023 – ACS Fall 2023 National Meeting & Exposition, San Francisco, CA. This meeting is being planned as an in-person and virtual hybrid meeting. Meeting theme: *Harnessing the Power of Data*. For more information, please see [ACS Meetings & Expositions - American Chemical Society](#). **The deadline to submit abstracts for the ACS Fall 2023 National Meeting & Exposition is April 4.**
- September 11 (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: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648. **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.**
- October 2 (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: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.
- November 6 (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: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.
- December 4 (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: 126 651 0648, or by phone at Phone number: 415-655-0001, Access code: 126 651 0648.

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