

# THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

**August 2017, Vol. 54, No. 8**

## **Contents**

Call for Nominations for 2018 Officer and Director Candidates.....	1
ACS Day at the Midland County Fair, August 16.....	2
History: From the Past -- and In the Making!.....	2
Call for Abstracts for 2017 Fall Scientific Meeting.....	3
Out and About with Outreach .....	5
The Member-Get-A-Member Cool Summertime Campaign.....	6
U.S. Team Brings Home the Gold from International Chemistry Olympiad .....	7
Total Solar Eclipse August 2017 .....	8
In Past Issues of <i>The Midland Chemist</i> .....	9
Upcoming Dates, Events, and Other Updates .....	10

## **Call for Nominations for 2018 Officer and Director Candidates**

**Wendy Flory, Chair, Nominations & 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 2018:

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

If you are interested in running for any of these positions, or if you know of someone who might be interested, please contact Wendy Flory at [wcfly@down.com](mailto:wcfly@down.com) or 989-636-5097. If you have any questions regarding the responsibilities of any of the positions, please contact the current officers or Wendy Flory. You are also encouraged to visit our website at [www.midlandacs.org](http://www.midlandacs.org).

ACS Day at the Midland County Fair, August 16  
Michelle Rivard, Treasurer, Midland Section ACS

## ACS DAY at the Midland County Fair!

Sponsored by the Midland Section of the American Chemical Society

Wednesday, Aug 16, 2017



**FREE**  
Hot dogs, chips, drinks  
to **ACS/MMTG/YCC**  
members, families  
and friends  
4:30-7:30 pm,  
tan picnic bldg north  
end of Grandstand



**SCIENCE  
DEMOS &  
NETWORKING**  
4:30-7:30 pm  
Tan picnic bldg.  
North end of  
Grandstand



**Ride 'til you drop!**

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

Just **\$16.00!**

**\$1 of ticket price goes toward funding MMTG Outreach Activities**



**Advance ticket sales only – MUST PURCHASE by FRIDAY, AUG 11 @ 12 pm!**

Jeanette - [Jeanette.Young@dowcorning.com](mailto:Jeanette.Young@dowcorning.com) or Deb - [dmendrick1@dow.com](mailto:dmendrick1@dow.com)

### History: From the Past -- and In the Making!

(or: What Gems Might You Have Hidden in Your Basement?)

Gina Malczewski, Director, Midland Section ACS

A committee has been working for more than 18 months on a historical exhibit to mark the Midland Section's 100th anniversary in 2019. Most of the exhibit will be located in the "traveling exhibit space" at the Doan History Center, but we also plan to use the Atrium and/or the Carriage House Hall for special events (at least monthly) throughout the exhibit's run (tentatively May 1 through December, 2019). We have engaged a designer (John Metcalf, formerly of Design Craftsmen, now Good Design Group), and have a preliminary floor plan, which will focus on the circumstances that launched our Section, and how its members have helped change the world.

We intend to construct the exhibit in modules that can be easily transported to other sites in 2020 and beyond--and we expect to have a website that will keep our history alive long after the exhibit. **NOTE (especially to senior members): Please check your basements and closets for potential artifacts for display!**

If you would like more information, or have something to contribute, please contact Wendell Dilling ([dilli1wl@cmich.edu](mailto:dilli1wl@cmich.edu)) or Gina Malczewski ([reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com)).

**Call for Abstracts for 2017 Fall Scientific Meeting**  
*Peter Bai, Fall Scientific Meeting Chair, Midland Section ACS*



American Chemical Society Midland Chapter  
**FALL SCIENTIFIC MEETING**  
Saturday, October 21, 2017  
Curtiss Hall, Saginaw Valley State University  
Theme: Chemistry Rocks!

**CALL FOR ABSTRACTS**

Please submit oral and written abstracts to Jay Liu ([JLiu7@dow.com](mailto:JLiu7@dow.com))  
Deadline for Industry Professionals: September 1, 2017  
Deadline for Academic Professionals and Students: September 22, 2017

**Call for Volunteers:** We are looking for volunteers to join the conference organizing committee and poster judge panel. If you are interested, please contact Peter Bai ([PJBai@dow.com](mailto:PJBai@dow.com))

Dear Students, Faculty, and Industry Professionals:

It is a pleasure to invite you to the 73<sup>rd</sup> ACS Fall Scientific Meeting. The conference is organized by the Midland Section of American Chemical Society, and will take place on October 21, 2017 at Saginaw Valley State University. The meeting is an annual gathering of students, faculty, and industry professionals to spur scientific dialogue, professional development, and networking. The theme for the conference this year is "Chemistry Rocks!"

**Invited Speakers:**

Philip Robertson (Keynote Speaker) – University Distinguished Professor, Michigan State University  
Cordell DeMattei – Director, Fermentation Sciences, Central Michigan University  
John Host – Materials Scientist, Hemlock Semiconductor Corporation  
Megan Rohrssen – Assistant Professor, Geology & Environmental Sciences, Central Michigan University  
Matt Schrenk – Assistant Professor, Earth and Environmental Sciences, Michigan State University

**Call for Abstracts:**

We are now accepting abstracts for oral and poster presentations at the conference. Topics of interest span all Chemistry-related disciplines. Please use the attached template (see page 4) to format your abstract, and submit your abstract to Dr. Jay Liu ([JLiu7@dow.com](mailto:JLiu7@dow.com)). Abstract submission deadlines are as follows:

Deadline for Industry Professionals:	September 1, 2017
Deadline for Students and Academic Professionals:	September 22, 2017

**Call for Volunteers:**

We are also looking for volunteers to join the conference organizing committee and poster judge panel. If you are interested, please contact Peter Bai ([PJBai@dow.com](mailto:PJBai@dow.com)).

**Questions:**

If you have additional questions about the ACS Fall Scientific Meeting, please contact anyone on the meeting organizing committee:

Peter Bai ([PJBai@dow.com](mailto:PJBai@dow.com))

Jennifer Larimer ([J.Larimer@hscpoly.com](mailto:J.Larimer@hscpoly.com))

Jay Liu ([JLiu7@dow.com](mailto:JLiu7@dow.com))

Mike Vagnini ([MTVagnini@dow.com](mailto:MTVagnini@dow.com))

### **ACS Fall Scientific Meeting Abstract Submission Form Template**

Please complete this form and email to Jay Liu ([JLiu7@dow.com](mailto:JLiu7@dow.com)). Please name the file in the following format: TYPE\_LASTNAME\_FIRSTNAME (e.g., Poster\_Smith\_John.docx).

Oral presentations will be 20 minutes long including Q&A. Posters have suggested dimensions of 48" x 36".

**Abstract Title:**

**Presentation Type (Oral/Poster):**

**Presenter Name(s):**

**Presenter Organization/Department:**

**Abstract (300 words maximum):**



## Out and About with Outreach

**Gina Malczewski and Michelle Rivard, Midland Section ACS Outreach**

The spring and summer of 2017 will be remembered for floods—but Outreach group activities have hopefully provided some pleasant memories for adults and children alike.

In late April we did our first "Super Science Saturday" for grades 5-8 at St. Brigid's with two 2-hour hands-on sessions ("Sci-Flight" and the Science of Frisbees, along with "Carbon Dioxide is CO<sub>2</sub>L!"), including our first "lock box" puzzle activity. The school year ended with hands-on Equilibrium labs conducted at Midland High School in late May, and a "Kinder-GARDENING" project with St. Brigid. This involved donation of seeds and soil, and a presentation on how plants grow, followed by pick-up of the resulting seedlings for transfer to the ACS garden. Also in May, we led hands-on activities at the Blessed Sacrament STEM Day (density, and "Bubble-ology"), and for Discovery Day at Nouvel in Saginaw we did "Up in the Air with CO<sub>2</sub>" and "Electrons on the Move" (about electrolysis). On May 4th, Chef Aaron Gaertner presented "Bacon and Eggs: Not Just for Breakfast" (a food science cafe) at Midland Center for the Arts.



one of the "Kinder-gardeners"



Equilibrium labs at  
Midland High School

Mid-Michigan Technicians Group hosted a 4-day summer camp at Delta College (see the July issue of *The Midland Chemist* for details). We held a "Firework'd Up!" science cafe at MCFTA June 15, and did hands-on sessions for the Society of Women Engineers on two Saturdays in June ("Si-ence"--all about silicon-containing materials). At River Days, another "Bubble-ology" set of experiments included bubbles made with three different gases, and investigation of foam peanut properties (Styrofoam vs. degradable cornstarch).

Going forward we plan presentations for the Boys and Girls Club at Garber High School (Carnival Science, August 14), activities at the Midland County Fair (August 16), and hands-on activities at Hemlock's "Sawdust Days" in mid-September. Scientific Wonder and Artful Genius (a program with Delta Impossible Dream students) begins in October.



Discovery Day

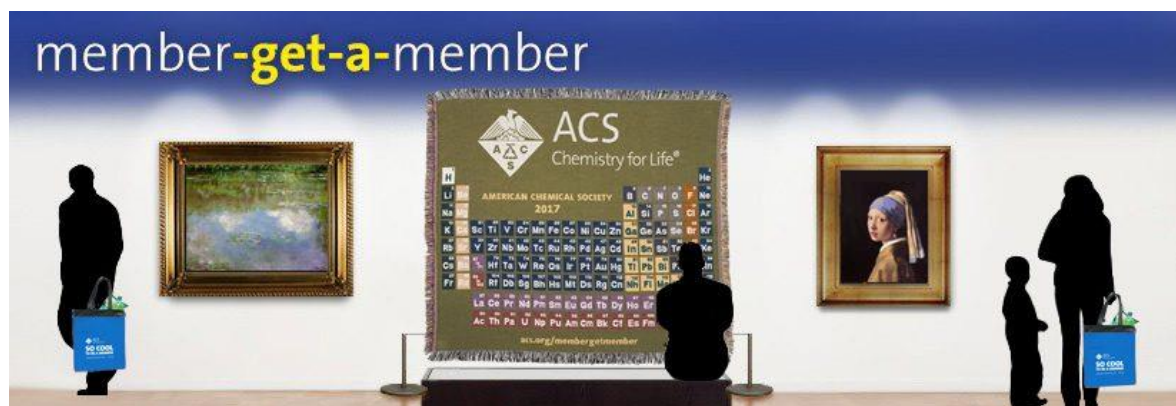
Come see us or volunteer to help! Contact Gina Malczewski ([reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com)) or Michelle Rivard ([michellerivard@dowcorning.com](mailto:michellerivard@dowcorning.com)) for more information or to put your name on our distribution list.

*"Out and About with Outreach" photos courtesy of Gina Malczewski*



River Days

### The Member-Get-A-Member Cool Summertime Campaign



From now until August 25th, new paid members recruited through the **MGM Cool Summertime Campaign** will receive a **SO COOL TO BE A MEMBER** cooler bag!

As in the past, a Periodic Table of the Elements blanket will still be sent to the current ACS member that recruits a new member using the Member-Get-A-Member application.

**Nominate someone through your ACS account...** Log in to ACS using your **ACS Web ID**, and send your Nominee an [MGM Cool e-invite](#) to join the American Chemical Society. Within your Nominee's e-invite they will be asked to click on a link that will take them directly to an online application.



Once the nominee's application has been submitted and dues have been paid, ACS will ship to you, the Nominator, a blanket. At the same time a cooler bag will be shipped to your Nominee!

Nominators, the most important thing to remember is ...  
... use the [Member-Get-A-Member Cool application](#)!  
It is the only way the nominator and nominee names are  
linked together and appear on the gift ship list.

## U.S. Team Brings Home the Gold from International Chemistry Olympiad

WASHINGTON, July 18, 2017 — The American Chemical Society (ACS) is proud to announce that, for the first time in history, the four high school chemistry whiz kids representing the U.S. at the annual [International Chemistry Olympiad](#) (IChO) each earned a gold medal. The competition was held in Nakhon Pathom, Thailand.

The members of the U.S. Team Alpha Kappa are:

**Steven Liu** of Monta Vista High School, Cupertino, California

**Joshua Park** of Lexington High School, Lexington, Massachusetts

**Harrison Wang** of Hinsdale Central High School, Hinsdale, Illinois

**Brendan Yap** of Carmel High School, Carmel, Indiana

"ACS congratulates the U.S. team, Alpha Kappa, for making history with all four students winning gold medals," says ACS President Allison A. Campbell, Ph.D. "The Society is proud to sponsor the team, and we wish them continued success."



Left to right: Yap, Liu, Park and Wang

*Credit: C. Hernandez/ACS*

The U.S. students competed with 293 students from 75 countries from July 6 to 15. During these 10 days of exams, laboratory work, athletics and sightseeing, the students had a chance to compete at the highest levels and establish networks that go beyond cultures and borders.

The IChO originated with Czechoslovakia, Poland and Hungary in 1968. Soon, other Eastern European countries joined the event; Western Europe began participating in 1974. The first U.S. team competed in 1984, winning one silver and two bronze medals.

The American Chemical Society (ACS) has sponsored the American team annually since the U.S. joined the Olympiad in 1984. Principal funding is through the ACS Donald F. and Mildred Topp Othmer Olympiad Endowment, with additional support from the U.S. Air Force Academy, Department of Chemistry; Carolina Biological Supply Company; National Geographic Learning | Cengage Learning; Fisher Science Education; Flinn Scientific Inc.; Prentice Hall Publishers; Texas Instruments Inc.; University Science Books; Sigma-Aldrich Inc.; and Wiley & Sons Publishers.

The American Chemical Society, the world's largest scientific society, is a not-for-profit organization chartered by the U.S. Congress. ACS is a global leader in providing access to chemistry-related information and research through its multiple databases, peer-reviewed journals and scientific conferences. ACS does not conduct research, but publishes and publicizes peer-reviewed scientific studies. Its main offices are in Washington, D.C., and Columbus, Ohio.



## Total Solar Eclipse August 2017



On Monday, August 21, 2017, all of North America will be treated to an eclipse of the sun. Anyone within the [path of totality](#) can see one of nature's most awe-inspiring sights – a total solar eclipse. This path, where the moon will completely cover the sun and the sun's tenuous atmosphere – the [corona](#) – can be seen, will stretch from Lincoln Beach, Oregon to Charleston, South Carolina. Observers outside this path will still see a [partial solar eclipse](#) where the moon covers part of the sun's disk.



Image Credit: Rick Fienberg, TravelQuest International and Wilderness Travel



You never want to look directly at the sun without appropriate protection except during totality. However, there are many ways to safely view an eclipse of the sun including direct viewing – which requires some type of filtering device – and indirect viewing where you project an image of the sun onto a screen. Both methods should produce clear images of the partial phase of an eclipse. [Click here](#) for eclipse viewing techniques and safety.

Download additional maps, posters, fact sheet, safety bulletin and other materials for use in your communities and events at NASA, <https://eclipse2017.nasa.gov/eclipse-maps>.



## **In Past Issues of *The Midland Chemist***

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

**50 Years Ago, *The Midland Chemist* 1967, 4, No. 3 (Sept), 12.**

In *October Seminar, "Reactions in Bishomocubyl Systems"*: "Dr. Wendell L. Dilling of The Dow Chemical Company will discuss 'Reactions in Bishomocubyl Systems' on Monday, October 2, 1967, at 7:30 p.m. in the Dow Corning Cafeteria Conference Room. This will be the first seminar of the 1967-1968 ACS Seminar Series."

**40 Years Ago, *The Midland Chemist* 1977, 14, No. 6, 5.**

In *Should ACS Divisions Have More Representation in the Council?* by Wendell L. Dilling, Councilor: "Two proposals for increasing the number of division councilors were discussed at the New Orleans National Meeting last March. These proposals probably will come up for a vote at the council meeting in Chicago on August 31, or if not in Chicago, then at a future national meeting.

I am personally in favor of increasing the percentage representation of the divisions because they carry out a major part of the scientific program of the ACS. Division membership is more directly related to the number of "active" ACS members than is local section membership which includes all ACS members. Members must ask to belong to a division and pay division dues, while all ACS members automatically belong to a local section."

**30 Years Ago, *The Midland Chemist* 1987, 24, No. 5, 3.**

In *Eliel Addresses 4th Annual Authors' Night*: "Prof. E. L. Eliel, University of Notre Dame will speak at the fourth annual Authors' Night program, held at Delta college on September 30, 1987, at 7:30 p.m. The topic of his seminar is 'ACS publications from the point of view of authors, readers, referees and publishers'. Further details can be obtained from Ron Sharp, phone: 686-9071."

**20 Years Ago, *The Midland Chemist* 1997, 34, No. 5, 9.**

In *First Annual Joint Meeting, Midland and Detroit Sections*: "'No wine before it's time' and the time is Saturday, October 18th, 1997! Mark the date on your calendars now and plan to meet in Frankenmuth, MI, where the Midland and Detroit sections are holding their first annual joint meeting. We'll start the festivities at about ten in the morning with a tour of the St. Julian's winery (with tasting, of course!), and end with lunch at the Bavarian Inn. We should be on our way home by about two in the afternoon and if all goes well we'll be able to enjoy Michigan's fall colors as well. There will be more complete details later but for now remember that good wine has to age a little and this will be ready in October...."

**10 Years Ago, *The Midland Chemist* 2007, 44, No. 4, 6.**

In *History of Midland Section Alive and Well* by Ann Birch and Wendell Dilling: "Did you know that materials in the Section archives go back to 1919, the year the Midland Section was founded? A wealth of information is contained in the archives and is accessible to members and researchers. As Section historian, Wendell Dilling ([dilli1wl@cmich.edu](mailto:dilli1wl@cmich.edu)) is the primary contact for historical information. Along with the other committee members, Robert E. Kohrman and Jennifer A. Walton, Wendell oversees the collection and updates the materials on an annual basis."

## Upcoming Dates, Events, and Other Updates

- August 7 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- August 9 (6:00 PM) – Meeting of the 2019 ACS Historical Exhibit Committee, MSU STEM building (front conference room). For information, contact Gina Malczewski ([reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com)).
- August 11 (12:00 PM) – **Deadline to purchase discounted ride bands for the 2017 Midland County Fair.** Ride bands are available for \$16.00 for a single-day, all-day, any-day of fun, too. Advance ticket sales only for ride bands by contacting Jeanette Young ([Jeanette.Young@dowcorning.com](mailto:Jeanette.Young@dowcorning.com)) or Deb Mendrick ([dmendrick1@dowcorning.com](mailto:dmendrick1@dowcorning.com)).
- August 16 (4:30 – 7:30 PM) – ACS Day at the Midland County Fair. Science demos and networking, and free hot dogs, chips, and drinks to ACS/MMTG/YCC members, families, and friends, tan picnic building, north end of the Grandstand, Midland County Fairgrounds. Discounted ride bands are available for \$16.00 for a single-day, all-day, any-day of fun, too. Advance ticket sales only for ride bands by contacting Jeanette Young ([Jeanette.Young@dowcorning.com](mailto:Jeanette.Young@dowcorning.com)) or Deb Mendrick ([dmendrick1@dowcorning.com](mailto:dmendrick1@dowcorning.com)) by no later than Friday, August 11, 12:00 PM.
- August 20-24 – 254th ACS National Meeting & Exposition, Washington, DC. For more information, see <https://www.acs.org/content/acs/en/meetings/fall-2017.html>.
- August 22 (8:00 – 10:00 PM) – National ACS *ChemLuminary Awards Event* (poster session, reception, and presentation of awards), Grand Ballroom, JW Marriott, 1331 Pennsylvania Avenue NW, Washington, DC. Note: The Midland Section ACS has been selected as a semi-finalist for nine different ChemLuminary awards based on Midland local section programs and activities for calendar year 2016! See the July 2017 issue of *The Midland Chemist*, page 8, for a complete list of the awards for which the Midland Section is nominated.
- August 25 (3:00 PM) – CERM Education Committee conference call. For information, contact Gina Malczewski ([reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com)).
- September 1 – **Deadline for submission of abstracts for the 2017 Fall Scientific Meeting by Industry Professionals.** For any questions, or to submit your abstracts, please contact Jay Liu at [JLiu7@dow.com](mailto:JLiu7@dow.com).
- September 11 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- September 22 – **Deadline for submission of abstracts for the 2017 Fall Scientific Meeting by Academic Professionals and Students.** For any questions, or to submit your abstracts, please contact Jay Liu at [JLiu7@dow.com](mailto:JLiu7@dow.com).
- October 2 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- October 21 (Save the Date) – 2017 Midland Section ACS Fall Scientific Meeting (FSM), Saginaw Valley State University (Curtis Hall). For more information, or to volunteer, please contact Peter Bai, 2017 FSM Chair, at [PJBai@dow.com](mailto:PJBai@dow.com).
- November 6 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- December 4 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.

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

**Volunteer Staff**

Vickie Langer

Steve Keinath

Greg Cushing

Tamlin Matthews

Editor ([vlanger@dow.com](mailto:vlanger@dow.com))

Editor ([skeinath54@charter.net](mailto:skeinath54@charter.net))

Webmaster, electronic distribution

Membership roster, hardcopy mailings

Please submit all articles and photographs to the editor. Neither *The Midland Chemist*, nor the Midland Section, nor the American Chemical Society assumes any responsibility for the statements and opinions advanced by contributors of or to *The Midland Chemist*.

© Copyright 2017 Midland Section of the American Chemical Society

*The Midland Chemist* is now primarily available online with publication notification by e-mail. If you are currently receiving *The Midland Chemist* as a hardcopy, this means that we do not have an e-mail address for you. If you do have e-mail and would prefer to get the publication electronically, please notify the editor at [newseditor@midlandacs.org](mailto: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 Chair, Anne Kelly-Rowley, at 989-636-3697.