

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

September 2018, Vol. 55, No. 9

Contents

Call for Nominations for 2019 Officer and Director Candidates.....	1
Call for Abstracts and Registration for 2018 Fall Scientific Meeting, October 13	2
ACS Fall Scientific Meeting Abstract Submission Template.....	3
Midland Section ACS Continues to Chart New Territory as Outstanding Section in Medium Size Category.....	4
Countdown to 2019 – The Wonderful Dr. Earl Warrick	5
Volunteer Appreciation Dinner, October 8	6
2018 Dow Great Lakes Bay STEM Festival, October 12-13.....	7
Request for Nominations for 2019 Eselen Award for Chemistry in the Public Interest	8
In Memoriam – John Raymond Moyer	9
50th ACS Central Regional Meeting – Save the Date, June 4-8, 2019	10
Upcoming Dates, Events, and Other Updates.....	11

Call for Nominations for 2019 Officer and Director Candidates

Wendy C. Flory, Chair, Nominations and Elections Committee

Here is your opportunity to become more involved in your local ACS section! We need candidates to run for the following positions for 2019:

- Chair-elect (1-year term)
- Secretary (1-year term)
- Treasurer (1-year term)
- Chair, Nominations and Elections Committee (1-year term)
- Alternate Councilor (2-year term, replacement for an early vacated position)*
- 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 wcflorey@dow.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.

Call for Abstracts and Registration for 2018 Fall Scientific Meeting, October 13
Eve Suthiwangcharoen and Jennifer Larimer, 2018 FSM Committee Co-Chairs, Midland Section ACS

American Chemical Society Midland Chapter invite you to join us in:



2018 FALL SCIENTIFIC MEETING
Chemistry is Out of This World
Saturday October 13, 2018 | Curtiss Hall, SVSU

Keynote Speaker Highlight
Dr. Allison Steiner, University of Michigan will present on "Atmospheric Chemistry and the Biosphere: Natural sources of volatile organic compounds and their fate in the atmosphere."



Expanded oral presentation sessions and poster session!

Deadline for Registration: 9/21/18 <http://www.midlandacs.org/fall-scientific-meeting/>
Deadline for abstracts: 9/16/18 ACSMidland2018@gmail.com

The event is sponsored by ACS Midland Chapter and SVSU Chemistry Club.

Additional Featured Speakers:

- Dr. Ted Bergin – University of Michigan, Astronomy
- Dr. Margaret Wooldridge – University of Michigan, Aerospace Engineering
- Dr. Marcos Dantus – Michigan State University, Chemistry Department
- Chris Windiate – Dow Chemical, TS&D Transportation

Deadline for Abstracts: September 16, 2018

- Please submit an abstract to ACSMidland2018@gmail.com for both poster & oral presentations
- Please use the attached template (see page 3) to format your abstract
- Oral presentations will be 20 minutes in length with 10 minutes for Q&A
- Posters have suggested dimensions of 48" x 36"
- Strict adherence to the conference theme is not a requirement!

Deadline for Registration: September 21, 2018 (<http://www.midlandacs.org/fall-scientific-meeting/>)

Don't miss this opportunity to showcase your research and link into the local scientific community! The call for abstracts and event registration are both open. Sign up today!

Event Cost: FREE for all attendees! The only cost associated with the conference is a \$10 charge to cover lunch (if you plan to have lunch at SVSU). The first 100 students who register for the event will get a FREE lunch!

Questions: If you have additional questions, please contact us at ACSmidland2018@gmail.com.

ACS Fall Scientific Meeting Abstract Submission Template

Abstract Title:

Presentation Type (Oral/Poster):

Presenter Name(s):

Presenter Organization/Department:

Abstract (300 words maximum):

Please complete the form and email to: ACSmidland2018@gmail.com

Midland Section ACS Continues to Chart New Territory as Outstanding Section in Medium Size Category

Gina Malczewski, Director, Midland Section ACS

At the recent 256th National ACS Meeting in Boston, during the 20th ChemLuminary Awards ceremony, the Midland Section of the ACS won an unprecedented 6th straight “Outstanding Performance Award” in the Medium Size Category for its 2017 activities. The Midland Section was a finalist in 11 different ChemLuminary Award categories and won in six of them. In fact, the Midland Section received the largest number of recognitions of any other ACS local section.



All of the nominations are described in detail in the [June 2018 issue](#) of the *Midland Chemist*. Some ChemLuminary Awards are not allowed to be given to a local section who has won that award previously within a certain time frame. The following six categories were recognized with awards:

Best Activity or Program in a Local Section Stimulating Member Involvement: For fun and food offered to members and their families at ACS Day at the Midland County Fair.

Outstanding High School Student Program: For hands-on Chem I labs in Bay City and high school programs at Midland High School that included Alka Seltzer experiments, Mixtures and Emulsions, and Equilibrium-related activities.

Best Event or Activity Organized by, or Benefiting, the Applied Chemical Technology Professional Community (4th year in a row): For 16 MMTG activities including Lunch and Learn sessions and social activities programming.

Global Engagement Award for Local Sections: For four days of teacher and student clinics in rural Guatemala and an all-day educator workshop at the University of Guatemala at Altiplano.

Most Creative & Innovative Use of the CCED Theme: For a three-venue Earth Day celebration that included the Recycling Center/Landfill, Chippewa Nature Center, and Creative 360. The community garden was featured and a speaker was offered, all recognizing how “Chemistry Helps Feed the World”.

Outstanding Performance by a Local Section (Medium Size Category) (6th year in a row): For all of the above and for our other activities, including Kids & Chemistry, special student summer camps, and our centennial celebration year preparations.



In addition, **Dr. Michael Tulchinsky** was recognized among the “Outstanding Local Section Volunteers”, and in a separate program, **Dr. Susan Butts** (Dow retiree) was one of 51 people honored as an ACS Fellow. This was the 10th class of ACS Fellows being recognized.

Photo at left: **Susan Butts** (center), her husband (left), and 2018 Midland Section ACS Chair, **Wenyi Huang** (right), at the ACS Fellows reception in Boston, MA, on August 20, 2018.

(Photo courtesy of Gina Malczewski)

Countdown to 2019 – The Wonderful Dr. Earl Warrick ***Gina Malczewski, 100th Anniversary Committee, Midland Section ACS***

Known for his patent on silly putty, ACS member Dr. Earl Warrick was much more. He was born in Butler, PA and became interested in chemical engineering when a 7th grade teacher encouraged him to build a one-tube radio. He excelled in high school, where he said “... I also ended up grading papers for the chemistry professor because he found out I liked chemistry and I was good at it.”



At Carnegie Institute of Technology, he made a switch to physical chemistry and earned a Sc.D. degree. He got a job at Mellon Institute in 1935, where he and Rob Roy McGregor began making glass for MacBeth-Evans, which was later purchased by Corning. He and Frank Hyde performed Grignard reactions to make silicone fluids and resins. At Hyde’s suggestion, Dow Chemical was approached as a collaborator with resources for pilot plants that could be used to scale up these materials.

(**Dr. Earl Warrick**. Photo courtesy of the Dow Historical Collection, from the archives of the Science History Institute)

In 1942, Admiral Hyman Rickover became convinced that silicone-impregnated glass tape could solve the Navy’s electric motor insulation problems. “As a result of his interest, the formation of Dow Corning went ahead,” said Warrick. “They held a meeting in Detroit, where three people from Corning and three people from Dow sat down to talk about the possibility of forming a joint venture. They came away from that meeting saying, ‘Yes,’ with merely a handshake.”

Warrick stayed at Mellon and worked on other projects for the new joint venture. He often had to take trains from Pittsburgh to Detroit (overnight), followed by “one-car” (stove-heated) locomotives that finally got him to Midland after many stops. He made the move to Midland in 1956 and over the next 20 years worked or consulted on radiation chemistry, silicon crystal formation, caulking, 200 Fluids, antimicrobials, and other new materials.

In 1986, Earl reminisced about trying to use boric oxide to polymerize silicone fluid. “We put it in, and lo and behold, it went into the chain. It became -Si-O-B-O-Si-. It behaved like a rubber. It bounced and you could mold it like a putty. We didn't know what to do with it, really. We made a lot of it and just kept it on the shelf. We did have a patent on it. The company apparently gave out samples to various salesmen. One salesman managed to sell it to this chap with an enterprising idea of putting it inside an egg and selling it. He must be a millionaire well over.”

Dr. Warrick earned the Charles Goodyear Medal in 1976 from the ACS for his pioneering work in silicone elastomer chemistry. He (and silly putty) will be commemorated in the Midland Section's centennial history exhibit next year.

Volunteer Appreciation Dinner, October 8

Michelle Rivard and Gina Malczewski, Outreach and Kids & Chemistry, Midland Section ACS

Calling all Midland Section ACS past and future volunteers! All Midland ACS Board members, committee chairs, and Kids & Chemistry volunteers are cordially invited to an evening dinner celebration of Midland Section ACS Achievements and Service. All 2018 volunteers will be recognized at this event.

Please RSVP by no later than October 4 using the SignUpGenius tab on the Midland Section ACS home page at <http://www.midlandacs.org/>. For more information or questions, please contact Michelle Rivard at michelle.rivard@dowcorning.com or Gina Malczewski at reginamalczewski@gmail.com.

Midland Section
ACS

Honoree for
Outstanding Technical
Student Award for
2018
CALYX MOORE

Midland Michigan
Technical Group
35 Year
1977-2016

THANK
YOU to
all our
volunteers!!

JOIN US
for a Celebration
of Achievement
and Service

RSVP by Oct 4
using SignUpGenius
tab on
midlandacs.org
home page

WHEN: Monday, October 8, 6:30-8:00 pm
WHERE: Creative 360 Gallery, 1517 Bayliss St, Midland, MI

FREE! DINNER and drinks PROVIDED

2018 Dow Great Lakes Bay STEM Festival, October 12-13
Science and Mathematics Division, Delta College

STEM Festival

Putting the "wow" in science, technology, engineering, and math (STEM), that's what this event is all about.

Each fall for the last five years, the Dow Great Lakes Bay STEM Festival has been hosted at Delta College. This two-day event is an engaging, hands-on, informal environment for area youth and their families to experience STEM. Through this event we're able to show students concepts on a much larger scale than teachers can pull off in the classroom.



Save the Date

Mark your calendars for Friday, October 12, and Saturday, October 13, for the 2018 event

- The first part of Friday from 8:30 AM – 2:00 PM is reserved for pre-registered 6th, 7th and 8th grades.
- New this year, a Friday evening session from 6:00 – 9:00 PM is FREE and open to the public.
- Saturday's session from 11:00 AM – 2:00 PM is also FREE and open to the public. Please note the time change from prior years. Registration for both public sessions is not required, but pre-registration does provide you with a chance to win a prize. Make sure to register early.

Plus, there's the opportunity to meet with before and after school groups that could continue the excitement after the event ends, the opportunity to meet with colleges and universities to explore higher education options, and the opportunity to meet with professionals from a variety of careers in an environment that really encourages one-on-one interaction between young people and professionals.

Registration Is Underway

Friday, October 12, 8:30 AM – 2:00 PM

Middle school registration is now closed. It will be reopened if space becomes available.

Friday, October 12, 6:00 – 9:00 PM, and Saturday, October 13, 11:00 AM – 2:00 PM

The event is open to the public on Friday evening and on Saturday. We invite you to pre-register to attend the festival. Registration is not required, but you can pre-register for a chance to win a prize by using this [Friday/Saturday registration form](#). We hope to see you there.

Partner sign up for both days

If you are interested in participating in this exciting event, please complete the [partner signup form](#) with your organization's information.

Volunteers Needed

Please consider volunteering by completing the [online volunteer registration form](#). For volunteers under the age of 18, a [parent signed waiver](#) is needed. Please bring the parent signed waiver form to the volunteer check-in station when you arrive for your assignment at the event.

Highlights from Last Year

In 2017, we hosted more than 3,200 middle school students on Friday. And, we estimate that over 3,000 additional visitors enjoyed the Saturday event. Over the past five years we've impacted the lives of more than 16,000 middle school students on the Friday events alone!

It's an event that exemplifies collaboration within our community! We sincerely thank our partner, [Michigan Technological University's Mind Trekkers](#), our many volunteers, and our generous sponsors.

Request for Nominations for 2019 Esselen Award for Chemistry in the Public Interest

David Walt, 2019 Chair of the Esselen Award Committee, Northeastern Section ACS

The **Gustavus John Esselen** Award for Chemistry in the Public Interest is a very prestigious honor provided by the Northeastern Section of the American Chemical Society. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The awardee should be a living resident of the US or Canada at the time of nomination, and the significance of the nominee's work should have become apparent within the five years preceding nomination.



The Esselen Award has no limitations with respect to the chemical field in which the nominees are active. It differs from many other awards in that it is for chemical activities whose importance to the public has been demonstrated. A complete list of the Esselen Award recipients is available at http://www.nesacs.org/awards/esselen/awards_esselen_recipients.html.

The award consists of a medal and a check for \$5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award is usually presented at the April meeting of the Northeastern Section of the ACS at Harvard University in Cambridge, MA. The tentative date for the upcoming award is April 11, 2019. The awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest. The award address should be at a level where it would be of interest to an audience that does not have knowledge of a specific field.

The award was established in 1987 to honor the memory of Gustavus John Esselen, a distinguished member of the Northeastern Section. The first awardees were F. Sherwood Rowland and Mario J. Molina, who subsequently received the Nobel Prize. Several other Esselen Award recipients have also been Nobel awardees.

Nominations shall include: (1) a letter signed by the primary sponsor with a description of the nominee's work recognized as making a major contribution to the public welfare and as communicating positive values of the chemical profession, plus the names of two co-sponsors; (2) short supporting co-sponsor statements; (3) the nominee's professional biography including a list of no more than 10 of the nominee's publications selected for their pertinence to the work nominated for recognition; and (4) copies of popular and technical press news or feature articles indicative of the public benefit and interest.

Inquiries should be directed to Dr. David Walt, c/o Jeananne Piper Grady, 11 Thaxter Street, Hingham, MA 02043. All nomination materials must be consolidated into a single electronic PDF file and e-mailed to dwalt@bwh.harvard.edu with a copy to JPiperGrady@gmail.com. The deadline for nominations is October 19, 2018, and joint nominations are acceptable. The Esselen Award Committee will review the nominations and the award recipient will be notified by the first of February 2019. Further information is available at http://www.nesacs.org/awards_esselen.html.

In Memoriam – John Raymond Moyer **Steve Keinath, Co-Editor, *The Midland Chemist***

Editor's note: The obituary notice for John Moyer as it appears here is reprinted, in part, from the Friday, August 31, 2018 issue of the *Midland Daily News*. Dr. Moyer was a longstanding member of the American Chemical Society, joining the society in 1956. At the time of his passing, he was a 62-year member of the ACS.



John Raymond Moyer died peacefully on August 28, 2018, after a brief illness. John was born June 9, 1931, of Percival and Catharine (Curtis) Moyer in Buffalo, NY. He attended the Armor School in Armor, NY, until the family moved to Dundee, Michigan in 1942. In 1948, he graduated from Dundee High School where he was class president and valedictorian. He earned varsity letters in football, basketball, baseball, and track. In his senior year he was co-captain of the football team. He attended Eastern Michigan University, known then as Michigan State Normal College, graduating in 1952 with majors in chemistry and education. While there he sang tenor in a barbershop quartet known as The Normal Four.

On August 31, 1952 he married Elizabeth Reber, his high school sweetheart and love of his life. They were married 66 years. He pursued graduate studies at the University of Michigan from 1952 to 1958, when he was awarded the degree of PhD in Chemistry. He joined Dow's Special Assignments Program in 1958 and moved to a permanent position in the Electrochemical Research Laboratory a year later. There he developed

technology to defend Dow's Chlor-Alkali business. In 1970 he moved to the Environmental Research Laboratory in the Michigan Division. He devised several processes for purifying byproduct brine streams so that they could be recycled rather than discarded.

In 1976 he returned to Dow Corporate Research's Inorganic Laboratory, which evolved into the Advanced Ceramics Laboratory. There he was promoted to Senior Research Scientist. He retired in 1993.

During his career, John was the author of numerous patents and scientific publications. In retirement John worked as a consultant for Caltech Industries in Midland, served as a director and teacher for the National Association of Investors (BetterInvesting), and as a volunteer for MidMichigan Home Care as a visitor to hospice patients. He had a deep love of gardening, both vegetables and flowers. He also loved to travel with his wife and friends and enjoyed their winters in Hawaii.

He was a member of Trinity Lutheran Church where he sang in the choir, served on the vestry, and taught Sunday School to eighth graders and adults. He is survived by his wife, Elizabeth; children, Ann Moyer of Philadelphia, PA, Jean (Don) Wakefield of Tualatin, OR, Tom (Peggy) Moyer of Chattanooga, TN, and Paul (Paula) Moyer of Kewadin, MI; and six grandchildren.

Services took place at 11:00 AM, Saturday, September 1, 2018 at Trinity Lutheran Church, 3701 Jefferson Avenue, Midland, MI. Family received friends at the Ware-Smith-Woolever Funeral Home, 1200 West Wheeler Street in Midland on Friday, August 31, 2018 from 6:00-8:00 PM and at the church on Saturday, September 1, 2018 from 10:00 AM until the time of service. Memorials may be made in John's name to Trinity Lutheran Church.

50th ACS Central Regional Meeting – Save the Date, June 4-8, 2019

2019 ACS CENTRAL REGIONAL
CHEMISTRY
MEETING JUNE 4-8, 2019
ACSCERM2019.ORG THE H HOTEL • MIDLAND • MI

SAVE THE DATE

In celebration of the 50th Central Regional Meeting of ACS and 100th anniversary of the Midland ACS section
YOU ARE INVITED TO EXPLORE

Strong, Diverse, High Profile TECHNICAL PROGRAM:

- World-class event themed **MOLECULES TO MATERIALS**
- Internationally recognized plenary speakers
- Honoring local historical figures in chemistry

Stimulating, Focused, Effective EDUCATIONAL INITIATIVES:

- High-impact educational tools for teachers and students
- Special hands-on, interactive experiences

Unique, Exciting, Multi-Faceted COMMUNITY OUTREACH:

- Public participation in the learning experience:
CHEMISTRY IN EVERYDAY LIFE
- Nurturing interest in and promoting the value of science

Craig Hawker
UCSB

A.N. Sreeram
Dow

Melanie Sanford
University of Michigan

Tobin Marks
Nottingham

50th CERM
MOLECULES TO MATERIALS
MIDLAND, MI JUNE 4-8, 2019

LEARN FROM THE BEST AND BRIGHTEST MINDS IN CHEMISTRY

Upcoming Dates, Events, and Other Updates

- September 10 (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 September 2018](#), meeting number/access code: 716 350 647, phone number: 989-633-1166.
- September 16 – **Deadline for submission of abstracts for the Midland Section ACS 2018 Fall Scientific Meeting.** Please submit a title and 300-word abstract to ACSmidland2018@gmail.com. Please see the flyer and abstract template in this newsletter for more details. For any questions, please contact Luqing Xi at lqi3@dow.com.
- September 21 – **Deadline for Midland Section ACS 2018 Fall Scientific Meeting attendance preregistration.** Please follow the SignUpGenius link at <http://www.midlandacs.org>. For any questions, please contact Luqing Xi at lqi3@dow.com.
- October 1 (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 October 2018](#), meeting number/access code: 710 134 652, phone number: 989-633-1166.
- October 4 – **Deadline to RSVP for the Midland Section ACS Volunteer Appreciation Dinner**, to be held the evening of October 8, at Creative 360, 1517 Bayliss Street, Midland. RSVP by using the SignUpGenius tab on the Midland Section ACS home page at <http://www.midlandacs.org/>. For more information or questions, please contact Michelle Rivard at michelle.rivard@dowcorning.com or Gina Malczewski at reginamalczewski@gmail.com.
- October 8 (6:30 – 8:00 PM) – Midland Section ACS Volunteer Appreciation Dinner, Creative 360, 1517 Bayliss Street, Midland. Please RSVP by no later than October 4 using the SignUpGenius tab on the Midland Section ACS home page at <http://www.midlandacs.org/>. For more information or questions, please contact Michelle Rivard at michelle.rivard@dowcorning.com or Gina Malczewski at reginamalczewski@gmail.com.
- October 12 (8:30 AM – 2:00 PM) – 2018 Dow Great Lakes Bay STEM Festival, Delta College, open to pre-registered middle school grades only (6th, 7th, and 8th grades). However, please note that middle school registration is now closed. It will be reopened if space becomes available. For more information, see <http://www.delta.edu/community/youth-programs/stem/stem-festival.html>.
- October 12 (6:00 – 9:00 PM) – 2018 Dow Great Lakes Bay STEM Festival, Delta College, FREE and open to the public. Registration is not required, but you can pre-register for a chance to win a prize by using this [Friday/Saturday registration form](#). For more information, see <http://www.delta.edu/community/youth-programs/stem/stem-festival.html>.
- October 13 (8:00 AM – 5:00 PM) – Midland Section ACS 2018 Fall Scientific Meeting, Curtiss Hall, Saginaw Valley State University. Meeting theme: *Chemistry Is Out of this World*. The deadline for submission of abstracts is September 16; please submit a title and 300-word abstract to ACSmidland2018@gmail.com. The deadline for 2018 Fall Scientific Meeting attendance preregistration is September 21; please follow the SignUpGenius link at <http://www.midlandacs.org>. For any questions, please contact Luqing Xi at lqi3@dow.com.
- October 13 (11:00 AM – 2:00 PM) – 2018 Dow Great Lakes Bay STEM Festival, Delta College, FREE and open to the public. Please note the time change from prior years. Registration is not required, but you can pre-register for a chance to win a prize by using this [Friday/Saturday registration form](#). For more information, see <http://www.delta.edu/community/youth-programs/stem/stem-festival.html>.
- October 19 – **Deadline for nominations for 2019 Gustavus John Esselen Award for Chemistry in the Public Interest**, sponsored by the Northeastern Section of the American Chemical Society. For more information, see http://www.nesacs.org/awards_esselen.html.

- November 5 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- December 3 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- June 4-8, 2019 (Save the Date) – 50th ACS Central Regional Meeting (2019 CERM), The H Hotel, Midland. Celebrating the 50th Central Regional Meeting of the ACS and the 100th anniversary of the Midland Section of the ACS. Abstract submission will open in December 2018. Please watch for more information at <https://acscerm2019.org/>.

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

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