

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

September 2017, Vol. 54, No. 9

Contents

Call for Nominations for 2018 Officer and Director Candidates.....	1
2017 ChemLuminary Awards – National Recognition for Midland Section ACS.....	2
Call for Abstracts and Registration for 2017 Fall Scientific Meeting.....	4
Silver Circle Retro Lunch Event: Share Memories and a Meal, October 4.....	6
2017 Dow Great Lakes Bay STEM Festival, October 6-7.....	6
Help Us Tell Our Story!.....	7
MSU Master’s Degree Program in Electrical Engineering in Midland.....	8
History: From the Past – and In the Making!.....	9
Science-Inspired Resources for Young Children.....	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 wcfory@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.

2017 ChemLuminary Awards – National Recognition for Midland Section ACS

Anne Kelly-Rowley, Chair, Midland Section ACS

At the 254th National ACS Meeting's ChemLuminary Awards event held on August 22, 2017, in Washington, DC, the Midland Section received seven awards; we were nominated for 10. The following are the outstanding Midland local section 2016 program year activities that were recognized in their respective categories:

- **Outstanding Performance by a Local Section (Medium Size Category).** The Midland Local Section was once again recognized for its outstanding performance based on the high quality programming and initiatives that we provide to our members and the community.
- **Creative & Innovative Use of the CCED Theme: Earth Day Expo and Seminar.** An Earth Day hands-on expo celebrating "The Great Indoors" theme was sponsored at the Midland Center for the Arts, and MSU professor Susan Masten provided an excellent seminar entitled "The Chemistry of Crisis: What Happened to Flint's Water?" which covered a chronology of events as well as the science behind the water contamination.
- **Global Engagement Award for Local Sections: Science Teaching in Guatemala.** An ACS Global Innovation Grant was used to bring supplies, written lessons and a hands-on teacher workshop to rural Guatemala where educators from three institutions had 3.5 days of training in a variety of curriculum-relevant science topics to share with their classes.
- **Most Creative NCW Celebration Using the Yearly Theme: Activities at Education Day with the Saginaw Spirit, Great Lakes Bay Science and Engineering Festival, and Forensics at Bay City Western Middle School.** Hands-on activities and giveaways related to determination of "real fruit" in juices, identifying polymers, fiber analysis, fingerprinting, blood group identification, document examination and other tests were conducted at three different venues over multiple months to celebrate "Solving Mysteries through Chemistry".
- **Most Innovative Activity in a Local Section for Senior Chemists: Silver Circle "Four Seasons" Program Summer and Fall Activities.** An outdoor lunch and garden tour were held at Creative 360 in August. Ice cream treats were provided as well as a "Chemistry of Ice Cream" webinar and demo. In October, a tour of Leaman's Applebarn and hayride were followed by a chili dinner with cider, donuts, and live music.
- **Outstanding Kids and Chemistry Award.** In 2016, the Midland Kids and Chemistry volunteers made at least 22 local school visits (most of them for multiple classes), and presented seven teacher workshops. Two six-week programs were offered and a total of more than 15,000 people attended a variety of community, school and conference activities, most of them hands-on and all of them interactive.
- **Best Event or Activity Organized by, or Benefiting, the Applied Chemical Technology Professional Community.** In 2016, the Mid-Michigan Technicians Group (MMTG) celebrated its 25th Anniversary with a symposium at the Fall Scientific Meeting (FSM). Six speakers were featured, three of whom were local technicians, and the keynote address was given by Skip Palenik, a Forensic Microscopist. The history of MMTG, its key role in Outreach, and the vital role of technicians in the chemical


industry were also highlighted. Two posters about MMTG were also presented in the FSM poster session. The event received overwhelmingly positive feedback.

It should be noted that MMTG was recognized for a technician-focused event for the third year in a row, and the Midland Section won its fifth consecutive Outstanding Performance by a Local Section Award (Medium Size Category). We are very proud of these and all of our achievements, and the volunteers who made them happen. Thank you!



Midland Section ACS leaders celebrate with National ACS representatives at the 2017 ChemLuminary Awards event in Washington, DC on August 22, 2017. Left to right, Jason Richie (Chair, National ACS Local Section Activities Committee), Dale LeCaptain, Aswini Dash, Jeff Seifferly, Janet Smith, Gina Malczewski, Tina Leaym, Michelle Rivard, and Peter Dorhout (2017 National ACS President-Elect). (Photo courtesy of National ACS.)

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



American Chemical Society Midland Section
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)
Deadline for Industry Professionals: October 1, 2017
Deadline for Academic Professionals and Students: October 1, 2017

Registration:
Please register at <http://www.midlandacs.org/fall-scientific-meeting/>
Registration Deadline: October 1, 2017

Dear Students, Faculty, and Industry Professionals:

It is a pleasure to invite you to the 73rd 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 5) to format your abstract, and submit your abstract to Dr. Jay Liu (JLiu7@dow.com). **The abstract submission deadline is October 1, 2017.**

Registration:

Register now for the Fall Scientific Meeting. The registration page for the 2017 ACS Fall Scientific Meeting is now open. Please register for the conference here: <http://www.midlandacs.org/fall-scientific-meeting/fall-scientific-meeting-registration/>. **The registration deadline is October 1, 2017.**

A buffet lunch will be available at the SVSU Marketplace. Lunch is free for students, \$7.00 for ACS members, and \$9.00 for non-ACS members. Please purchase your lunch tickets here: <http://www.midlandacs.org/fall-scientific-meeting/> (see bottom of webpage).

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).

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), Jennifer Larimer (J.Larimer@hscpoly.com), Jay Liu (JLiu7@dow.com), and Mike Vagnini (MTVagnini@dow.com).

ACS Fall Scientific Meeting Abstract Submission Form Template

Please complete this form and email to Jay Liu (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):

Silver Circle Retro Lunch Event: Share Memories and a Meal, October 4

Joan Sabourin, Silver Circle Committee, Midland Section ACS

The Midland Section ACS Silver Circle group is sponsoring a "retro" lunch and discussion relevant to the 2019 Midland Section History Exhibit on Wednesday, October 4, 11:30 AM, at Creative 360 (1517 Bayliss Street, Midland). Lunch will be FREE for all attendees, and you don't have to be a "senior" chemist to attend. Watch for your invitation to attend via a separate e-mail note with a RSVP return request.

A discussion about the historical exhibit planned for our local section's 100th anniversary in 2019 with your informational input and suggestions will follow. Of special importance is the possible role of "experienced" ACS members in exhibit design and construction, e.g., by the lending of artifacts, sharing historical knowledge and ideas, construction assistance, or tax-exempt financial support through a new project fund set up at the Midland Area Community Foundation. The exhibit is planned for the Doan History Center from May to December, 2019, with monthly special programs in the nearby Carriage House Hall.

For questions or comments, please contact Gretchen Kohl (gretchen.kohl@att.net, 989-708-9066); Joan Sabourin (jmsabour2@gmail.com, 989-714-8203); or Gina Malczewski (reginamalczewski@gmail.com, 989-859-9433).

Added note: We also appreciated the involvement of those who helped us win our local section's first Silver Circle ChemLuminary award. We were nominated for this award last year for 2015 activities, but did not win. We received the honor for 2016 programs at the ACS National Meeting in Washington, DC on August 22, 2017.

2017 Dow Great Lakes Bay STEM Festival, October 6-7

Cindy Drake, Delta College Event Coordinator, 2017 STEM Festival

The Michigan Tech Mind Trekkers and Delta College invite you to the 5th Annual 2017 Dow Great Lakes Bay STEM Festival. Mind Trekkers brings the "WOW" of Science, Technology, Engineering, and Mathematics to students through hands-on, engaging activities.

- Friday, October 6, 8:30 AM – 2:00 PM, will be for registered area middle schools to bus students to the event for specific, prescheduled time blocks.
- Saturday, October 7, 10:00 AM – 4:00 PM, will be free and open to the general public. You may come and go during the event as you please.

Delta College has hosted this event since 2013. This year will have all of the same fun, engaging, educational opportunities in Science, Technology, Engineering, and Math, with the addition of the Arts and how they connect to STEM. This will be a fun event for all ages! To see pictures from last year's two-day event, click on the following link: <http://www.delta.edu/stemfestival>.

What is a STEM Festival and why should you care? Here are a few good reasons:

- Excite students about STEM education and show them the possibilities and opportunities an education in STEM will bring them.
- Over 100 hands-on "WOW" activities in a wide range of STEM fields!

- Explore before/after school STEM-related activities to keep their excitement level up.
- Explore post-secondary opportunities (what they will do next).
- Explore STEM-related career opportunities in Michigan.
- Meet with STEM professionals to answer student questions in a relaxed and fun environment.
- Explore how the Arts relate to STEM fields.

For more information, or for any questions, please contact the Delta College Event Coordinator, Cindy Drake, at 989-686-9433, or send an e-mail note to her at cynthiadrake@delta.edu.

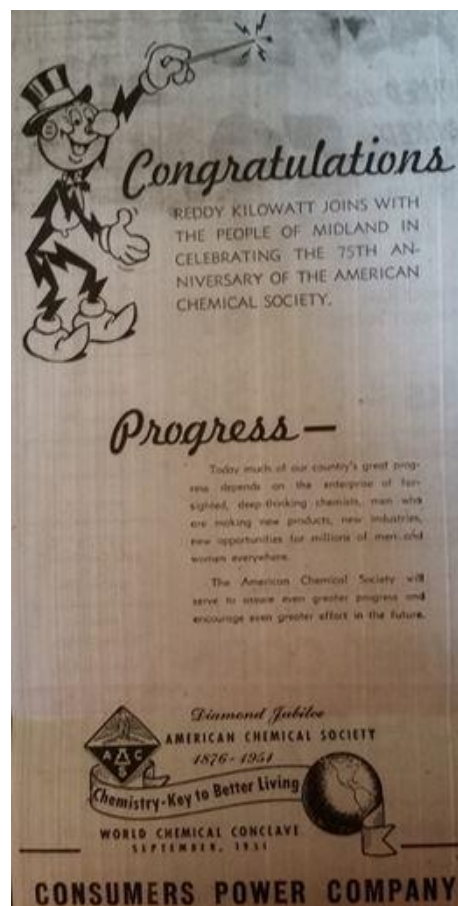
Help Us Tell Our Story!

Gina Malczewski, 100th Anniversary Committee, Midland Section ACS

To help celebrate the Midland Section's Centennial in 2019, we are planning a historical exhibit at the Doan History Center, with corollary events and presentations there and on the neighboring campus by the Dow Brinewell site (designated as a National Historical Chemical Landmark in 1997). The exhibit will address the reasons for the start of the Midland Section of the ACS (with H.H. Dow as its first Chair), the local and national leadership shown by its members, and their contributions to chemistry that affects our everyday lives. The exhibit will also focus on where we are headed, and the activities that will help us encourage the chemists of tomorrow.

Aspects of the exhibit plan will be featured in future newsletters. The photo at right (courtesy of Gina Malczewski) shows a newspaper ad from the *Midland Daily News* in 1951 that celebrates the 75th anniversary of the National ACS. It demonstrates the strong community support that our local section has enjoyed throughout its first century. This historical project allows us to commemorate our past heritage as we continue to work to earn the respect of the local community for many years to come.

If you wish to donate financially to the Midland Section historical exhibit, we have established a project fund at the Midland Area Community Foundation (Midland ACS Historical Project Fund) that is now accepting tax-exempt gifts to help with the costs that will cover design, construction, and post-anniversary year use. An exhibit-related website will be developed, along with some related printed materials, and we plan to construct the historical exhibit in modules that can be enjoyed at satellite locations after the 100th anniversary exhibit closes at the end of 2019.



If you have any questions, please contact Gina Malczewski (reginamalczewski@gmail.com) or Wendell Dilling (dilli1wl@cmich.edu).

MSU Master's Degree Program in Electrical Engineering in Midland
Melanie Kauffman, Communications Manager, Michigan State University



**EARN A
MICHIGAN STATE
MASTER'S DEGREE IN
ELECTRICAL
ENGINEERING IN
MIDLAND**

ENROLL TODAY

MSU Professor Hayder Radha and the
CANVAS autonomous research vehicle

**DRIVE YOUR CAREER FORWARD
WITHOUT DRIVING ACROSS THE STATE**

Steer your career toward the growing field of automotive electronics in the Michigan State University Midland Electrical Engineering Master of Science degree program. This new option within the MSU Department of Electrical and Computer Engineering will enhance your knowledge of Internet of Things (IoT) technologies, automotive electronics, robotics, signal processing and wireless technologies. Designed around your full time schedule with evening classes, MSU will work with you to develop an academic roadmap that best meets your career plans.

LEARN MORE

What	A two-year MS program providing the same advanced graduate-level engineering education available at MSU's East Lansing campus closer to home in the Great Lakes Bay Region.
Format	Two classes/week, two year program. Choose between two degree tracks: Option A (24 credit hours of course work + 6 credit hours of thesis) Option B (30 credit hours of course work)
When	Application deadline for Fall Semester 2017 is August 10, 2017. Application deadline for Spring Semester 2018 is October 15, 2017.
Where	Classes will be held at the MSU St. Andrew campus, 1910 W. St. Andrews Rd., Midland.
Cost	Application fee is \$75. MSU graduate credit tuition and fees apply.
Who	Open to students with applicable undergraduate degrees qualifying for MSU graduate school admission.

Questions? Learn more on-line at ece.msu.edu/midlandms or contact us directly:
Department Chair John Papapolymierou jpapapol@egr.msu.edu
Professor Ed Rothwell rothwell@egr.msu.edu
Assoc. Professor Nelson Sepúlveda nelsons@egr.msu.edu



College of Engineering
MICHIGAN STATE UNIVERSITY

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 local 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) or Gina Malczewski (reginamalczewski@gmail.com).

Science-Inspired Resources for Young Children
Tina Leaym, Councilor, Midland Section ACS

A few months ago through some National ACS Women Chemists Committee connections, I became aware of an interesting set of science-inspired resources for young children, including story books, board games, and card games. Here is a link to a three-book set regarding the fundamentals of chemistry for young kids. The books are fun, kind of cute, and share the basics of (1) *Protons and Neutrons*, (2) *Electrons*, and (3) *Atoms*: <https://www.kickstarter.com/projects/geniusgames/my-first-science-textbook-chemistry-story-books-fo>.

The company, GeniusGames, also produces science board games and card games. They have three games available through Amazon now, (1) *Ion: A Compound Building Game*, (2) *Virulence: An Infectious Card Game*, and (3) and *Covalence: A Molecule Building Game*. Please see: https://www.amazon.com/Genius-Games/b/ref=bl_dp_s_web_10213217011?ie=UTF8&node=10213217011.

The company is also working on a project called *Science Wide Open* that are children's books that are designed to inspire curiosity with true stories of women scientists in chemistry, biology, and physics. This is currently in the pre-order phase. Please see: https://www.kickstarter.com/projects/geniusgames/science-wide-open-childrens-books-about-women-in-s?ref=ending_soon.

Upcoming Dates, Events, and Other Updates

- 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 15 (6:00 PM) – Outreach team meeting, with food and activities, sponsored by MMTG, 302 North Saginaw Road, Midland (please park at the 222 Professional Building, or across the street at Barstow Woods). For questions, please contact Michelle Rivard at michellerivard@dowcorning.com or Gina Malczewski at reginamalczewski@gmail.com.
- October 1 – **Deadline for submission of abstracts for the 2017 Midland Section ACS Fall Scientific Meeting.** For any questions, or to submit your abstracts, please contact Jay Liu at JLiu7@dow.com.
- October 1 – **Deadline for registration for the 2017 Midland Section ACS Fall Scientific Meeting.** Please register now for the 2017 ACS Fall Scientific Meeting at <http://www.midlandacs.org/fall-scientific-meeting/fall-scientific-meeting-registration/>. A buffet lunch will be available at the SVSU Marketplace (free for students, \$7.00 for ACS members, and \$9.00 for non-ACS members). Please purchase your lunch tickets at <http://www.midlandacs.org/fall-scientific-meeting/> (see bottom of webpage). For more information, or to volunteer, please contact Peter Bai, 2017 FSM Chair, at PJBai@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 4 (11:30 AM) – Midland Section ACS Silver Circle retro lunch and discussion relevant to the 2019 Midland Section history exhibit project, Creative 360, 1517 Bayliss Street, Midland. Lunch will be FREE for all attendees, and you don't have to be a "senior" chemist to attend. For questions, please contact Joan Sabourin at jmsabour2@gmail.com or 989-714-8203.
- October 6 (8:30 AM – 2:00 PM) – 2017 Dow Great Lakes Bay STEM Festival, Delta College, open to registered area middle schools to bus students to the event. For more information, please contact Cindy Drake at cynthiadrake@delta.edu or 989-686-9433.
- October 7 (10:00 AM – 4:00 PM) – 2017 Dow Great Lakes Bay STEM Festival, Delta College, free and open to the general public. For more information, please contact Cindy Drake at cynthiadrake@delta.edu or 989-686-9433.
- October 21 (Save the Date) – 2017 Midland Section ACS Fall Scientific Meeting (FSM), Saginaw Valley State University (Curtis Hall). Please register now for the 2017 ACS Fall Scientific Meeting at <http://www.midlandacs.org/fall-scientific-meeting/fall-scientific-meeting-registration/>. A buffet lunch will be available at the SVSU Marketplace (free for students, \$7.00 for ACS members, and \$9.00 for non-ACS members). Please purchase your lunch tickets at <http://www.midlandacs.org/fall-scientific-meeting/> (see bottom of webpage). For more information, or to volunteer, please contact Peter Bai, 2017 FSM Chair, at PJBai@dow.com. **The registration deadline is October 1, 2017.**
- 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	Editor (vllanger@dow.com)
Steve Keinath	Editor (skeinath54@charter.net)
Greg Cushing	Webmaster, electronic distribution
Tamlin Matthews	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. 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.