

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

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Chair Column, December 2017

Anne Kelly-Rowley, Chair, Midland Section ACS



What a year 2017 has been for the Midland Section and for our members. First I would like to thank everyone who has volunteered their time, talents, and energy to the Section in order to bring valuable programs to our Five County Area. Our section is run entirely by volunteers and without your support we would not be able to do any of the great things we've accomplished this year. And our list of accomplishments is incredibly long, too long to list here (although I would direct you to this Newsletter and its archives). Thank you once again. What is even more amazing is that our members have delivered while in the midst of great change in our local industry. This year has brought the merger of Dow with Dow Corning, and the resultant restructuring of Hemlock Semiconductor. This was then followed by the merger of the combined

Dow with DuPont. In the near future, we will see a spinoff of DowDuPont into three separate companies aligned with Materials Science (Dow), Agriculture (TBD), and Specialty Products (TBD).

Each of the intended separations is fueled by the powerful combination of highly complementary portfolios, resources, and capabilities from Dow and DuPont. They will each be better positioned than their predecessors to continue driving innovation to provide superior solutions for customers, and better serve communities around the world.ⁱ

Change can be stressful for those impacted, even when the results will ultimately be better for the independent companies and even result in new and better opportunities for individuals. While we can't control external events, we can control how we perceive, respond, and cope with them. Please connect with your friends and colleagues and remember that the American Chemical Society is an organization designed to support chemistry professionals in their careers. For more information, see www.acs.org at the national level, and at the local level at www.midlandacs.org.

Thank you very much for the opportunity to have served as the 2017 Chair of the Midland Section. Wenyi Huang will be the Chair for 2018 and I look forward to his leadership of the section while I will transition to Past-Chair duties. If you would like to connect, I am on LinkedIn and can also be reached by email at amkelly-rowley@dow.com.

ⁱ <http://www.dow-dupont.com/about-dow-dupont/default.aspx>

Pizza, Pool, and Pitchers Network Social – December 1st **Dale LeCaptain, Councilor, Midland Section ACS**

ACS invites YOU -- ACS students, YCC, and Midland ACS members



PIZZA, POOL, and PITCHERS NETWORK Social
Friday December 1st
4:30 – 7:00 ish
Big D's Bar & Grill
[430 W Isabella Rd, Midland]



FREE Pizza and Pool sponsored by Midland Section Student Members

Hosted by: CMU – ACS student members
(Mark Hansen hanse3ma@cmich.edu | (989) 217-0915)

Bring an ACS worthy friend!

And some Holiday Cheer!



Say What? Questions, Answers and Rules for an Industrial Career by Mark Jones – December 8th
ACS Midland Section/Dow YRC

ACS Midland Section/Dow YRC Joint Seminar

Say What? Questions, Answers and Rules for an Industrial Career



Mark Jones

**Executive External Strategy and Communications Fellow (Senior Research Fellow) of
The Dow Chemical Company
American Chemical Society Fellow**

Creative 360 (1517 Bayliss St, Midland, MI 48640)

Monday, December 11, 2017

11:30 AM to 1:00 PM

- *For Dow YRC members, please sign up internally for free.*
- ACS members register by email at chair@midlandacs.org
- Space is limited, **registration deadline is December 8, 2017!**

Cost: **\$5/person** for ACS members and **\$10/person** for non-ACS members.

Payments can be made through PayPal (<http://www.midlandacs.org/>, above the calendar of ACS Midland homepage) or pay at the door (exact change is appreciated)

Abstract:

The ability to both ask and answer questions is an indispensable career skill. I'll reflect on some of the questions, most interesting answers, and how a few played a big role in a near 30 year career. Getting from the bench to the CTO's staff, and to be recognized as an ACS Fellow, was an interesting journey, much of it unplanned. Many events were completely unexpected and the ability to turn a serendipitous observation into a new project provided some of the most fun.

Biography of Speaker:

A love of science and a passion for chemistry propelled a farm kid from Virginia to a satisfying industrial career. Mark Jones is currently Executive External Strategy and Communications Fellow for Dow Chemical, reporting directly to Dr. A.N. Sreeram, Corporate Vice President of Research & Development and Chief Technology Officer. Mark joined the CTO staff in September 2011, due, in part, to his skill in communicating science.

In 2017, Mark was named a Fellow of the American Chemical Society, recognized for his commitment to communicating chemistry. He curates and hosts webinars describing successful product introductions with ACS Webinars. He is a frequent speaker at scientific meetings on topics of energy, sustainability, biomass conversion, and others. He currently serves as co-chair of the National Academy's Chemical Sciences Roundtable. He is a co-author on the recently released National Research Council reports on "ARPA-E" and "Sustainable Development of Algal Biofuels in the United States". He is a member of the Board of Directors of the Biotechnology Innovation Organization (BIO) Industrial and Environmental Section and is an active member of the American Chemistry Council's Biobased Chemistry Network. The White House's Advanced Manufacturing Partnership was a focus from 2013-15, looking both at technology options and improving scale-up of new technologies. He participated in a number of World Economic Forum events, leading discussions around energy and bioproducts. He recently assumed responsibility for next generation sustainability goals associated with innovation at Dow. Mark represents Dow Chemical on the American Chemical Society's Corporation Associates and the Chemical Heritage Landmark Committee.

Mark joined Dow in 1990 following a graduate career that had very little to do with his ultimate career path. He followed a degree from Randolph-Macon College with a Ph.D. from the University of Colorado-Boulder where he studied gas-phase ion molecule chemistry – not an area of great industrial interest. A post-doc at the Cooperative Institute for Research in Environmental Science preceded coming to Dow. His early Dow career was spent in Catalysis, in what is now Core R&D. Mark discovered a family of catalysts useful for conversion of ethane directly to vinyl chloride, and other catalysts for both chlorocarbon chemistry and alkane activation. Moves to Performance Plastics, Hydrocarbons, Chemicals, Energy and Licensing R&D, Ventures and New Business Development and the Energy Storage Devices followed. Mark co-directed the Renewable Chemistries Expertise Center (RCEC) for over a decade. Mark touched many areas of technology, including experience in the processing of inorganic materials, fuel cell development for portable power applications, cellulosic conversion, and broad technology exploration.

Call for Nominations for 2018 ACS Fellows Program

Diana Deese, Chair, Midland Section ACS Awards Committee

Just a reminder that the Section is still seeking nominees for ACS Fellow! The deadline to have the nomination packet turned in to Diana is February 1, 2018. More information can be found at the following link:

<https://www.acs.org/content/acs/en/funding-and-awards/fellows.html>.

2018 Spring Awards Banquet and Call for Nominations

Diana Deese, Chair, Midland Section ACS Awards Committee

May 2, 2018, is the date for the Midland Section Spring Awards Banquet! A detailed call for nominations will be in the January edition of *The Midland Chemist* to solicit nominations for our local section awards in the following categories:

- Outstanding Elementary Level Science Teaching
- Outstanding Middle Level Science Teaching
- Outstanding High School Chemistry Teaching
- Outstanding College Chemistry Teaching
- Science Education Volunteer of the Year
- Promotion of Diversity in Chemistry, Related Sciences, and Engineering
- Outstanding Achievement and Promotion of the Chemical Sciences
- Outstanding Service to the American Chemical Society
- Outstanding Chemical Technician
- Outstanding High School / College Chemistry Students

Contact Diana Deese at dkdeese@dow.com for additional information.

Upcoming Lectures Sponsored by the Mid-Michigan Section of AIChE

Ron Leng, Program Chair, Mid-Michigan AIChE

All Midland Section ACS members are cordially invited to attend any of several invited-speaker events hosted by the Mid-Michigan Section of the American Institute of Chemical Engineers (AIChE). The evening meetings will be held at the Grand Traverse Pie Company, 2600 North Saginaw Road, Midland. Admission is free and complimentary sandwiches will be available, first come, first served at 6:00 PM with the presentations starting around 6:30 PM. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.

- **Ken First**, Retired Process Safety Leader, Dow AgroSciences
Hazard Analysis & Risk Analysis Tool Kit
Wednesday, December 13, 2017, 6:00 PM dinner (optional), 6:30 PM presentation
- **Billy Bardin**, Tech Center Director, Dow Chemical Company
Advanced Manufacturing
Wednesday, January 10, 2018, 12:00-1:30 PM, Dow Chemical, 1790 Building, CR 272
- **Leo Chiang**, Associate Tech Director, Chemometrics and Data Analytics, Analytical Tech Center
Big Data Analytics
Wednesday, February 21, 2018, 6:00 PM dinner (optional), 6:30 PM presentation

- **Paul Vosejpka**, Dow Automotive R&D Director
The Future of Transportation
Wednesday, March 21, 2018, 6:00 PM dinner (optional), 6:30 PM presentation
- **Open**
Wednesday, April 25, 2018, 6:00 PM dinner (optional), 6:30 PM presentation
- **Mark Weick**, Dow Global Sustainability Director – Keynote Speaker, Annual Spring Banquet
Sustainability: The Chemical Engineer’s Role in the Future
Tuesday, May 22, 2018 (tentative), venue to be confirmed

Midland ACS “Rocks” Chemistry for NCW

Dave Stickle, Michelle Rivard, and Gina Malczewski, Midland Section ACS

The Midland Section of the ACS “rocked” Delta College at this year’s celebration of National Chemistry Week at the Dow Great Lakes Bay STEM Festival. This was the 5th year of the STEM festival, which replaced the Section long standing NCW Sci-Fest (started in 1995). The Dow Great Lakes Bay STEM Festival is a collaboration between Delta College, Mind Trekkers of Michigan Technological University (MTU), Dow Chemical, Midland ACS, and many other area businesses, organizations, and local STEM societies. This year the two-day Festival bussed in about 3200 middle school students and chaperones on Friday, October 6, and approximately 3000 more children and parents attended on Saturday, October 7. Over the last five years this STEM festival has drawn more than 16,000 middle school students on Friday alone, with Dow Chemical being the major sponsor.



The Festival is a STEM Educational Outreach event with lots of hands-on activities for the attendees. The STEM-related Delta College program students along with 70-80 Mind Trekkers (MTU student volunteers) participated.

The activities offered by the ACS Midland Section involved the NCW theme of rocks, with glow-in-the-dark minerals activated by long and short wave UV lights: The what, when, where, how, and why of minerals that fluoresce.

In addition, the chemistry of rocks, minerals, and gems was explored, along with the seven crystal structures.



Students used paper cutouts to construct the shapes of different crystals, and learned how impurities give many of the rocks and gems their coloring. Simulated gems and polished rocks were available as give-aways.

The ACS Midland Section also helped sponsor Dr. Slime's chemistry show again at this year's STEM Festival event. He presented an entertaining program, and got many of the kids involved as his lab assistants.



The Dow Great Lakes Bay STEM festival is well received by area schools, students, teachers, and the public, leading to good attendance, and significant positive feedback.

The NCW theme of "Chemistry Rocks!" along with the Festival's demos then took a trip to Bullock Creek Middle School. All three sixth-grade classes (90 students) participated in two different days of hands-on experiments exploring the chemistry of rocks, minerals, and gems from Earth, and a second program exploring rocks from Outer Space!

The Rocks from Outer Space program then "Rocked" a joint Girl Scout and Boy Scout event where 24 Scouts learned the differences between asteroids, meteoroids, meteors, meteorites, stars, comets, and tektites, with authentic examples (meteorites and tektites) along with a hands-on activity called "Edible Rocks!" During the "Edible Rocks" activity, students and Scouts got first-hand experience of how scientists explore and describe physical characteristics of an object.



At another NCW-related program, for Delta College Possible Dream students, at-risk middle schoolers did hands-on chemical and physical characterization of different rock/mineral types, especially those related to calcium sulfates that vary in their hydration states.



This session was part of a series that combines science concepts and art applications, and concluded with each student making their own clay mold, into which a water and Plaster of Paris mixture was poured. The resulting gypsum pieces were later removed from the molds and painted to take home.

Photos courtesy of Dave Stickle

In Memoriam – Norman E. Skelly **Steve Keinath, Co-Editor, *The Midland Chemist***

Editor's note: Norm Skelly's obituary as it appears here is reprinted, in part, from the November 27, 2017 issue of the *Midland Daily News*. His obituary mentions the fact that he was a member of the American Chemical Society.



Norman E. Skelly, 88, passed away Monday, Nov. 20, 2017 at the Kristal Bell Care Home in Glendale, Ariz. He was born Nov. 27, 1928 in Minneapolis, Minn., to John and Anna (Langanki) Skelly. He was the older of one brother.

Skelly graduated from Patrick Henry High School where he lettered in football, hockey, and baseball. In 1947, he was selected to the All-City hockey team. Following high school graduation he received a B.S. degree in chemistry from St. Thomas University in St. Paul, Minn. He then attended the University of Iowa receiving M.S. and Ph.D. degrees in analytical chemistry in 1953 and 1955, respectively.

Upon graduation he joined The Dow Chemical Co. and spent a 35 year career in the analytical laboratories. During his time with Dow, he authored or co-authored 40 literature publications, two book chapters, and two patents. He specialized in liquid chromatography, chemical separations, and the isolation of trace impurities in Dow products. He was the first to isolate dioxin (2,3,7,8-TCDD) from a Dow process and was awarded with a "Chemical Separations Award" named in his honor. He was a member of the American Chemical Society and Sigma Xi scientific professional societies. He was a co-founder of the Dow Analytical Retiree's Luncheon Group. He also organized a monthly nickel-dime poker group.

While in Midland he participated in slow/fast-pitch softball, ice hockey, and volleyball. He played hockey for the Midland Monroe Oil and the Bay City Americans, once scoring seven goals in an 11 to 7 win. In 2009 he was inducted into the Bay County Athletic Hall of Fame. From 1970-76 he was coach of the girls Fleet Feet cross country teams. In November 1974, his 9-under team won the National AAU Cross Country Championship in Dayton, Ohio.

His hobbies included woodworking, home remodeling, gardening, and stamp and coin collecting. He was an original member of the Midland Woodworkers Club, making various pieces of furniture for his children. With the aid of his greenhouse he was one of the first in Midland to have a ripe tomato. In 2005, he broke his own record with a 28 pound watermelon.

On June 13, 1953 he married Eileen Anne Sellen in Carroll, Iowa. She preceded him in death on Oct. 16, 1999. He is survived by his five lovely daughters, Maureen Skelly, Jocelyn and Timothy Gaffney, Phoenix, Karen Carter, Phoenix, Danielle and Thomas Govert, West Olive, Mich., Leah Skelly (deceased 2009), and Kayla and Paul Lankford, Glendale, Ariz. He is also survived by nine granddaughters, one grandson, one great-granddaughter, and a special great-grandson, Joshua Skelly. He was preceded in death by brother, Howard P. Skelly of Ramsey, Minn., and a sister-in-law, Verna Smith. A son, Michael William, died in infancy.

A Mass of Christian burial will be celebrated at 1 p.m. Thursday, Dec. 7 at Blessed Sacrament Catholic Church. Interment will follow in New Calvary Cemetery. Those planning an expression of sympathy should consider the local Habitat for Humanity. Arrangements have been entrusted to the care of Ware-Smith-Woolever Funeral

Home, 1200 W. Wheeler Street, Midland. To view Norm's obituary online or to leave a condolence for the family, please visit www.waresmithwoolever.com.

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. 6 (Dec), 10.

In *Latest Endeavor, Introduce Chemistry to Boy Scouts*: "The Midland Section of the American Chemical Society is considering the sponsorship of a specialty Explorer Post, devoted to chemical and/or chemical engineering pursuits, under the general program of the Boy Scouts of America."

40 Years Ago, *The Midland Chemist* **1977**, 14, No. 9, 3.

In *Chairman's Corner* by Bruce Thill: "The Section instituted a Project Catalyst program, which afforded the opportunity for a deserving and talented high school student to work during the summer in a one-to-one relationship with a university professor. Our Section's function was to identify the student and the professor and supply funds (\$500) for a work stipend for the student. The net results of this experiment must now be fully evaluated and the decision as to the desirability of continuing be made."

30 Years Ago, *The Midland Chemist* **1987**, 24, No. 8, 8.

In *Midland Section's Historical Records* by Marcia L. Dilling, Section Historian: "In 1986, the Board of Directors of the Midland ACS Section sought a permanent home for the Section's historical records. For many years the records had been housed in offices at The Dow Chemical Company where they were secure but not always readily available to Section officers. Discussions with representatives of the Midland Historical Society and the Clarke Historical Library at Central Michigan University led to the conclusion that the latter offered the optimum in storage security and availability to Section members."

20 Years Ago, *The Midland Chemist* **1997**, 34, No. 9, 15.

In *Governor Engler and State Senate Honor Midland Section*: "The dedication of the H.H. Dow Museum as a National Historic Chemical Landmark on May 29, commemorating Even's Mill as the site of Herbert Dow's first production of bromine by electrolysis was attended by Michigan State Senator Joel Gougeon, 34th District. During the ceremony, Senator Gougeon presented a number of tributes, declarations, and a State Senate Resolution on behalf of the Michigan State Legislature and Governor John Engler recognizing the Landmark dedication and the 10th Anniversary of National Chemistry Week. The Governor also declares the week of November 2-8, 1997 as Chemistry Week in the State of Michigan."

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

In *Tom Lane Wins President-Elect Position in National ACS* by Ann Birch: "The Midland Section is pleased to congratulate Dr. Thomas H. Lane on being elected president-elect for 2008 for the National ACS. Tom is Director, Global Science and Technology Outreach, and a research scientist at Dow Corning Corporation and has been an ACS member since 1973."

Upcoming Dates, Events, and Other Updates

- December 1 (4:30 – 7:00 PM) – Pizza, Pool, and Pitchers Network Social. Big D’s Bar & Grill, 430 W. Isabella Rd, Midland. **FREE** Pizza and Pool sponsored by Midland Section Student Members, contact: Mark Hansen hanse3ma@cmich.edu or (989) 217-0915.
- 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.
- December 8 – Deadline to register for the ACS Midland Section/Dow YRC Joint Seminar, *Say What? Questions, Answers and Rules for an Industrial Career*, presented by Mark Jones. Please see pages 3-4 for information.
- December 11 (11:30 AM – 1:00 PM) – ACS Midland Section/Dow YRC Joint Seminar, *Say What? Questions, Answers and Rules for an Industrial Career*, presented by Mark Jones, Executive External Strategy and Communications Fellow (Senior Research Fellow) of The Dow Chemical Company, and American Chemical Society Fellow. Creative 360, 1517 Bayliss Street, Midland. Space is limited, registration deadline is December 8. Cost is \$5 per person for ACS members, \$10 per person for non-ACS members, Free for Dow YRC members. Please see pages 3-4 for registration and payment information.
- December 13 (6:00 – 7:30 PM) – MMAICHe sponsored lecture, *Hazard Analysis & Risk Analysis Tool Kit*, presented by Ken First, Retired Process Safety Leader, Dow AgroSciences. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 6:30 PM presentation. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.
- January 8 (7:00 – 8:00 PM) – ACS Board meeting, Creative 360, 1517 Bayliss Street, Midland, (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.
- January 10 (12:00-1:30 PM) – MMAICHe sponsored lecture, *Advanced Manufacturing*, presented by Billy Bardin, Tech Center Director, Dow Chemical Company. Location and time: Dow Chemical, 1790 Building, CR 272, Midland, 12:00 PM lunch (optional), 12:30 PM presentation. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.
- February 5 (tentative date) (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.
- February 21 (6:00 – 7:30 PM) – MMAICHe sponsored lecture, *Big Data Analytics*, presented by Leo Chiang, Associate Tech Director, Chemometrics and Data Analytics, Analytical Tech Center. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 6:30 PM presentation. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.
- March 5 (tentative date) (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.
- March 18-22 – 255th ACS National Meeting & Exposition, New Orleans, LA. For more information, see <https://www.acs.org/content/acs/en/meetings/national-meeting/spring-2018.html>.

- March 21 (6:00 – 7:30 PM) – MMAICHe sponsored lecture, *The Future of Transportation*, presented by Paul Vosejka, Dow Automotive R&D Director. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 6:30 PM presentation. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.
- April 9 (tentative date) (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.
- April 25 (6:00 – 7:30 PM) – MMAICHe sponsored lecture, *Open Topic (TBD)*. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 6:30 PM presentation. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.
- May 2 (save the date, evening program) – Midland Section ACS Spring Awards Banquet, Great Hall Banquet & Convention Center, 5121 Bay City Road, Midland. For more information, contact Diana Deese, Midland Section ACS Awards Committee Chair, at dkdeese@dow.com or 989-636-9915.
- May 7 (tentative date) (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.
- May 22 (tentative) – MMAICHe Annual Spring Banquet, Keynote Lecture – *Sustainability: The Chemical Engineer's Role in the Future*, presented by Mark Weick, Dow Global Sustainability Director. *Venue to be confirmed*. Meeting times and locations are subject to change, so please check the [Mid-Michigan AIChE Events](#) website for updates to the schedule. For more information or questions, contact Ron Leng at 989-636-6158 or rbleng@dow.com, or Ted Calverley at 989-636-2881 or emcalverly@dow.com.
- June 4 (tentative date) (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 19-23 – 256th ACS National Meeting & Exposition, Boston, MA. For more information, see <https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html>.

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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