

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

February 2019, Vol. 56, No. 2

Contents

2019 Midland Section ACS Leadership.....	1
Of Molecules and Melodies: The Neurochemistry of Music, February 8	4
Leadership Development Opportunity, February 9	5
Michigan Forest Bioeconomy Conference, February 12-13	6
Midland Section Centennial Request for Historical Items	7
Sidney Harris Cartoons Provided by the Division of History of Chemistry	8
Sidney Harris Cartoon Caption Contest.....	8
When Will Procedure for Vote Counting in ACS Election of Directors-at-Large Be Corrected?	9
Announcing the 2019 Spring Awards Banquet and Call for Nominations	14
Call for Nominations: 2019 Teaching, Volunteer, Education, Chemical Sciences Awards	14
Countdown to 2019: Your Story Can Be a Part of the Centennial Exhibit.....	18
Lapel Pins Are Available to Commemorate the 2019 Centennial Year and 50th CERM Meeting.....	18
50th ACS Central Regional Meeting – Save the Date, June 4-8	19
In Past Issues of <i>The Midland Chemist</i>	20
Upcoming Dates, Events, and Other Updates	21

2019 Midland Section ACS Leadership

Amanda Palumbo, Chair, Midland Section ACS

Board of Directors: The Board of Directors consists of the officers of the Section (Chair, Chair-Elect, Secretary, and Treasurer), the immediate Past Chair, the Councilors, the Alternate Councilors, the Chair of the Nominations and Elections Committee, and nine Directors, all of whom are voting members. The Councilors, Alternate Councilors, and Directors are elected to three-year terms. All others are elected to one-year terms. The number in parentheses in the list below indicates the final year in office. The asterisks indicate members of the Executive Committee.

Committee Chairs: There are four standing committees: nominations and elections, membership, program, and publicity. All other committees are established by the Board of Directors with Committee Chairs appointed by the Chair of the Midland local section. Below is also a list of the current committee chairs.

2019 ACS Midland Leadership Team		
Chair*	Amanda Palumbo	amanda.palumbo@dow.com
Chair-Elect*	Mark Jones	markjones@dow.com
Secretary*	Soham Dutta	secretary@midlandacs.org ; sdutta2@dow.com

Treasurer*	Michelle Rivard	treasurer@midlandacs.org ; michelle.rivard@dow.com
Past Chair*	Wenyi Huang	whuang1@dow.com
Councilor (19)	Dale LeCaptain	dale.lecaptain@cmich.edu
Councilor (20)	Tina Leaym	tina.leaym@dow.com
Alternate Councilor (19)	Steve Keinath	skeinath54@charter.net
Alternate Councilor (20)	Lauren Jackson	lmjackson1@dow.com
Chair, Nominations & Elections Committee	Michelle Cummings	elections@midlandacs.org ; michelle.cummings@dow.com
Director (19)	Wendell Dilling	dilli1wl@cmich.edu
Director (19)	Regina Malczewski	reginamalczewski@gmail.com
Director (19)	Aswini Dash	a.dash@dow.com
Director (20)	Tami Sivy	tsivy@svsu.edu
Director (20)	Janice Tomasik	tomas1jh@cmich.edu
Director (20)	Bryan Stubbert	BDStubbert@dow.com
Director (21)	Kevin Wier	kevin.wier@dow.com
Director (21)	Kshitish Patankar	kpatankar@dow.com
Director (21)	Lauren McCullough	LRMcCullough@dow.com
Committee Chairs		
2019 Central Regional Meeting	Dimi Katsoulis	dimi.katsoulis@dow.com
Awards	Diana Deese	awards@midlandacs.org ; DKDeese@dow.com
Chemistry Olympiad	Michael Tulchinsky	tulchimi@dow.com
Ex Officio Director	Tom Lane	maingeeek1@gmail.com
Fall Scientific Meeting	Tom Bekemeier	tom.bekemeier@dow.com
	Elizabeth Santos	EMSantos@dow.com
Finance	Wendy Flory	WCFlory@dow.com
Historian	Wendell Dilling	history@midlandacs.org ; dilli1wl@cmich.edu
Long Range Planning Committee	Gina Malczewski	reginamalczewski@gmail.com
	Wenyi Huang	whuang1@dow.com
Membership	Wendy Flory	membership@midlandacs.org ; wcfory@dow.com
Midland Chemist Newsletter	Vickie Langer	newseditor@midlandacs.org ; vlanger@dow.com
	Steve Keinath	newseditor@midlandacs.org ; skeinath54@charter.net
Mid Michigan Technologists Group	Jake Remacle	j.remacle@dow.com
Multicultural & Diversity Committee	William Wang	xianghuai.wang@dow.com
Outreach/Kids and Chemistry	Gina Malczewski	outreach@midlandacs.org
	Michelle Rivard	michelle.rivard@dow.com

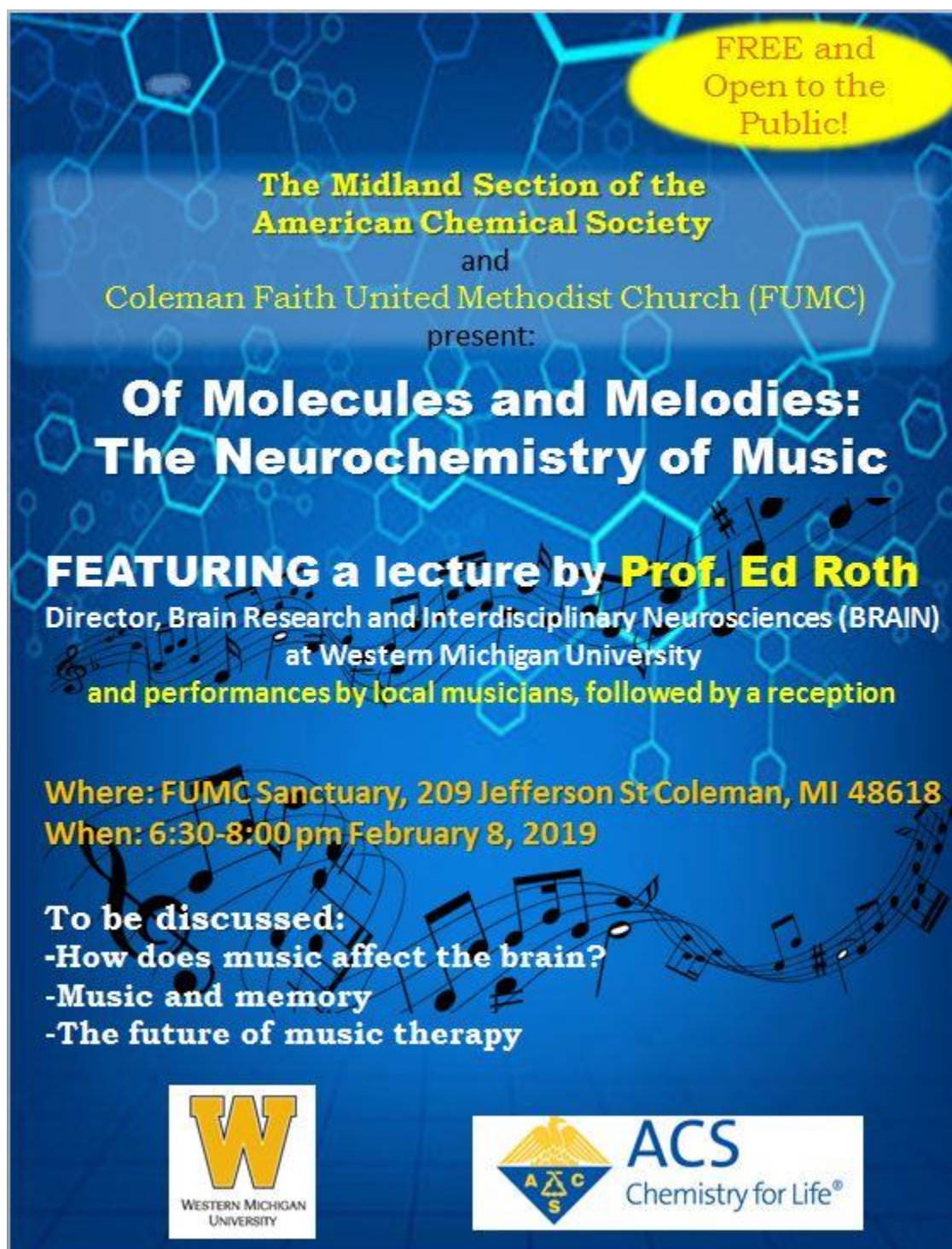
Program	Mark Jones	markjones@dow.com
Project SEED	Bernadette Harkness	bernadetteharkness@delta.edu
Public Affairs	Open	
Publicity	Open	
Safety	Kevin Wier	safety@midlandacs.org ; kevin.wier@dow.com
Sci-Fest/NCW	Dave Stickles	dstick44@chartermi.net
	Michelle Rivard	michelle.rivard@dow.com
Silver Circle/Senior Chemists	Joan Sabourin	jmsabour2@gmail.com
	Gretchen Kohl	gretchen.kohl@att.net
Teacher Support	Gina Malczewski	reginamalczewski@gmail.com
Webmaster	Michael Malczewski	web@midlandacs.org ; michael.j.malczewski@gmail.com
Women Chemists Committee	Lauren McCullough	LRMcCullough@dow.com
	Tina Leaym	tina.leaym@dow.com
Young Chemists Committee	Stacey Saba	SASaba@dow.com



Left to right, front row: Soham Dutta, Michelle Rivard, Amanda Palumbo, Michelle Cummings, Diana Deese
Middle row: Tom Lane, Bryan Stubbart, Mark Jones, Lauren McCullough, Gina Malczewski, Wendell Dilling
Back row: Steve Keinath, Wenyi Huang, Kshitish Patankar, Kevin Wier, Dave Stickles
Photo courtesy of Tom Lane

Of Molecules and Melodies: The Neurochemistry of Music, February 8

Gina Malczewski, Director, Midland Section ACS



FREE and Open to the Public!



The Midland Section of the American Chemical Society
and
Coleman Faith United Methodist Church (FUMC)
present:

**Of Molecules and Melodies:
The Neurochemistry of Music**

FEATURING a lecture by Prof. Ed Roth
Director, Brain Research and Interdisciplinary Neurosciences (BRAIN)
at Western Michigan University
and performances by local musicians, followed by a reception

Where: FUMC Sanctuary, 209 Jefferson St Coleman, MI 48618
When: 6:30-8:00 pm February 8, 2019

To be discussed:
-How does music affect the brain?
-Music and memory
-The future of music therapy

Leadership Development Opportunity, February 9

Amanda Palumbo, Chair, Midland Section ACS

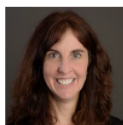
The Detroit and Midland sections of the ACS Women Chemists Committee invite you to the second annual Skills Beyond the Bench: Leading with Passion! We will have nationally recognized speakers from Dow, Beyond Benign, and Northwestern University sharing lessons, advice, and tips to develop your “skills beyond the bench” and become a better leader! The event will be on Saturday, February 9th from 11AM-3:30 PM in Flint. The cost to register is \$10 and includes the workshop, lunch, and a coffee and cookies networking session.

Register by February 1 at the following link and contact Lauren McCullough (LRMcCullough@dow.com) with any questions!

Registration: <https://tinyurl.com/y72kxxy7>

2ND ANNUAL **SKILLS BEYOND THE BENCH: LEADING WITH PASSION**

Saturday, February 9, 2019, 11:00 am – 3:30 pm



Dr. Linda Broadbelt
Sarah Rebecca Roland Professor and
Associate Dean for Research,
Engineering
Northwestern University



Dr. Amy Cannon
Co-founder and Executive
Director,
Beyond Benign



Dr. Eunice Heath
Global Director of
Environment, Health, Safety, &
Sustainability, Consumer Solutions
Dow



Dr. Cheryl Teich
2015 President of AIChE,
Reaction Engineering
Expertise Area Leader
Dow (retired)

The Midland and Detroit Sections of the American Chemical Society's Women Chemist Committees present a panel discussion and networking event for all area scientists. The selected speakers represent different careers within chemistry. They will discuss the leadership skills that were useful to get their positions and advance through their careers beyond just basic chemistry and bench work. Stay after the panel discussion to network with other ACS members and scientists. **Please register by February 1, 2019.** Tickets are \$10, but students will be refunded \$5 by showing a valid student ID at the check in. For questions, contact Jessica Tischler at jtisch@umflint.edu.



You are invited!

Speakers from careers in industry, academia, and professional organizations will discuss their path to Leadership

Network with other chemistry professionals

A buffet lunch will be served followed by a Panel Discussion and Networking event

**Hosted by: The University of Michigan-Flint
at the Ramsdell Room
Flint Farmers' Market
300 East First Street
Flint, MI 48502**

**To register through Eventbrite, click on the link below:
<https://tinyurl.com/y72kxxy7>**

Michigan Forest Bioeconomy Conference, February 12-13

Amanda Palumbo, Chair, Midland Section ACS



Engaging with the forest sector can increase Michigan's competitiveness

Dow, Ford, LanzaTech, Steelcase, DuPont and others to present at the
2nd Michigan Forest Bioeconomy Conference Feb 12-13 in Midland, MI

HOUGHTON, MI, USA (January 17, 2019) – The Michigan Forest Biomaterials Institute (MiFBI) will host the 2nd Michigan Forest Bioeconomy Conference on Feb 12-13, 2019 at The H Hotel in Midland, MI to engage companies, state agencies, universities and non-government organizations interested in moving the circular bioeconomy forward. Mark Rudnicki, Executive Director of MiFBI, explained that forest feedstocks offer a low carbon and renewable alternative to fossil fuels. Maximizing the value of residuals and waste from wood harvesting, milling, manufacturing, and post-consumer use is critical to building a circular bioeconomy. “To accomplish this, we must cross sectors to connect forest concerns to the chemical, mobility and biomedical sectors,” according to Rudnicki. “Michigan certainly has the manufacturing base as we are #1 in office furniture, #1 in plastic products and of course #1 in automobiles – all sectors increasingly interested in responsibly sourced, renewable resources - so why not from Michigan?”, added Rudnicki.

Keynote speakers include Mary Draves, Vice President and Chief Sustainability Officer for Dow, and John Warner, President and Chief Technology Officer for Warner Babcock Institute for Green Chemistry and one of the recognized founders of Green Chemistry. Other speakers represent a variety of stakeholders in Michigan, across the US, and abroad – including Ford Motor Company, DuPont, Steelcase, LanzaTech, Performance BioFilaments, Technical Research Institute of Finland, Michigan Chemistry Council, University of Michigan, Michigan State University, Michigan Technological University as well as others.

Representing Senator Debbie Stabenow's Office, Sean Babington, a Senior Professional Staff at US Senate Committee on Agriculture, Nutrition and Forestry, will address the recently enacted bipartisan 2018 Farm Bill and Timber Innovation Act.

Breakout sessions will allow participants to focus on specific areas of the circular Bioeconomy including mass timber buildings, wood recycling and circular economy, policy needs, non-timber forest products, wood conversion chemistry, wood energy, creative design, and supply chain.

“Michigan's responsibly managed forests offer exciting potentials for circular bioeconomy. This conference will create opportunities to position Michigan as a US leader in this space,” projected Rudnicki.

Sponsored by Weyerhaeuser, Michigan Department of Agriculture and Rural Development, Michigan Department of Natural Resources, and Guiding Green, the 2nd Michigan Forest Bioeconomy Conference will be held at the H Hotel in Midland, MI on February 12-13. More information on the agenda, registration and sponsorship can be found at <http://mifbi.org>. <http://mifbi.org/the-second-michigan-forest-bioeconomyconference/>

About the Michigan Forest Bioeconomy Institute (MiFBI)

A 501(c)(3) non-profit founded in 2016 and based at Michigan Technological University, the Michigan Forest Biomaterials Institute (MiFBI) was established with a mandate to facilitate the forest bio-circular economy in Michigan. The Institute's mission is to enhance quality of life in Michigan by fostering sustainable forests, communities, and economies through innovative and responsible production, use, and recycling of forest biomaterials. For more information, visit www.mifbi.org.

Contact:

Mark Rudnicki, Ph.D.

Executive Director, Michigan Forest Biomaterials Institute

mark@mifbi.org

Professor of Practice, Forest Biomaterials

School of Forest Resources and Environmental Science

Michigan Technological University

Midland Section Centennial Request for Historical Items

Gina Malczewski and Gretchen Kohl, 2019 Centennial Committee, Midland Section ACS

MIDLAND ACS MEMBERS OR FAMILY:

As we work on the historical exhibit to celebrate the centennial of our Section in 2019, we need **YOUR HELP**:

- Do you have any artifacts from the past around your house that you would consider loaning to us for the exhibit:
 - Photos of any ACS event or activity? (Science Fairs? Dinners?...)
 - Photos of people at work doing chemistry or using equipment?
 - Actual equipment
 - Awards?
- Look for our "Centennial SLEUTH" Features in the newsletter and elsewhere to help us identify people, places, and events to document for our dedicated website as well as the exhibit.



CONTACTS:
gretchen.kohl@att.net
reginamalczewski@gmail.com



Sidney Harris Cartoons Provided by the Division of History of Chemistry

Editor's note: The Division of History of Chemistry has received an ACS Innovative Grant that will provide (free) 12 Sidney Harris cartoons to the ACS local sections for use in their newsletters or monthly communications or website.



It's fun to enjoy Sidney Harris's cartoons at their most basic level. But Harris's cartoons typically include several levels of humor that are particularly relished by "insiders." Regarding the chemicals mentioned in this cartoon, Harris "think[s] these actually are from canned soup. Maybe more than one. Generally I make up names that I don't even know exist. Once I had an equation in a cartoon for the New Yorker, and they wanted me to assure them that it was gibberish. If it wasn't, they said they'd get a lot of angry and critical mail."

-- Jeffrey I. Seeman, University of Richmond

"I'M ATTEMPTING TO TRANSMUTE CALCIUM OXIDE, COPPER GLUCONATE, MANGANESE SULFATE, TYROSINE AND BENZALDEHYDE INTO CONDENSED SOUP."



"ALTHOUGH YOUR DISCOVERY IS VERY IMPORTANT, THE CONSENSUS IS THAT YOUR ARTICLE ABOUT IT LACKED SUSPENSE, AND WAS COMPLETELY DEVOID OF HUMOR."

The incongruity of the reviewers' comments with the criteria that one thinks should govern the evaluation of a paper or proposal is what makes the cartoon funny. But, as is always true in Sidney Harris's cartoons, there is another message under the surface: Perhaps scientists should embrace the "broader audience" of their papers, or the "outreach" criteria of the granting agencies more openheartedly. Nothing in the nature of the world or the understanding of scientists would be damaged if humor and suspense were allowed to enter scientific papers. Gatekeepers relax!

-- Roald Hoffmann, Cornell University

Sidney Harris Cartoon Caption Contest

Submitted by Jeff Seeman, Department of Chemistry, University of Richmond

Win your own Sidney Harris original cartoon! A contest will be held in which ACS members can submit "one original cartoon caption" of 35 words or less. Cartoonist Sidney Harris will draw a cartoon based on the winning caption. The grand prize winner will receive the original cartoon based on his/her winning caption. The runner-up will receive a personally autographed copy of one of Harris's most famous cartoons chosen by Harris. For more information and the official entry form, go to: <http://acshist.scs.illinois.edu/index.php>

When Will Procedure for Vote Counting in ACS Election of Directors-at-Large Be Corrected?

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

Wendell L. Dilling, dilli1wl@cmich.edu

Following are communications between myself and the people indicated in an attempt to correct problems with the vote counting procedure used by the ACS for election of Directors-at-Large. Feed-back from Midland Section members would be appreciated.

E-Mail attachment sent 3-26-18 to Committee on Nominations and Elections (N&E), Committee on Constitution and Bylaws, Les W. McQuire, Flint Lewis, Frank Walworth, Richard Cobb, Tom Lane, Dale LeCaptain, Tina Leaym, ACS President, Executive Director, Lee Latimer, and Bibiana Campos Seijo

A shortened version of the following letter to the editor of C&EN, sent December 4, 2017, was not accepted for publication. The letter was shortened to abide by the 400-word limit for such letters.

Preferential Election Procedure Needs Revision

The results of the last two elections for Directors-at-Large (C&EN, Nov. 7, 2016, p 7; Nov. 6, 2017, p 5) demonstrate that the election procedure needs to be changed. The pertinent part of the General Procedure 2.b (<https://www.acs.org/content/dam/acsorg/about/governance/councilors/procedures-balloting-and-preferential-voting.pdf>) as currently written states "If there are multiple positions for the same office to be filled and only one candidate receives a majority of first-preference votes cast, then the candidate receiving the majority shall be declared elected. The elected candidate's second-preference votes are redistributed to the remaining unelected candidates. Additionally (or if no candidate receives a majority of first-preference votes cast), the candidate with the fewest first- preference votes is eliminated from further consideration; the second-preference votes of the eliminated candidate are redistributed to the remaining unelected candidates. The procedure continues until one candidate receives a majority. When a candidate receives a majority and is declared elected, the elected candidate's second-preference votes are redistributed to the remaining unelected candidates. After the second-preference votes are redistributed and no remaining candidate receives a majority, then the candidate with the lowest number of votes is eliminated and the eliminated candidate's second-preference votes are redistributed to the remaining unelected candidates. The process is repeated until the number of elected candidates equals the number of positions available."

If a candidate receives a majority of the first-preference votes, and is thus elected, then the second-preference votes on those ballots where the elected candidate was the first-preference are distributed to the remaining unelected candidates, i.e. all the remaining candidates. If candidate/s need to be eliminated in order for a winning candidate to be elected by a majority, then the second-preference votes on the ballots where the elected candidate was the first-preference are not distributed to all the remaining unelected candidate/s. In other words, the disposition of these second-preference votes depends on how the first candidate elected was elected.

In the 2017 election, the effect of this procedure was to eliminate Fivizzani and Lawlor before the vote counting for the second candidate was started and the second-preference votes on the ballots where Jones was the first-preference were distributed only to Sawrey or not at all. They should have been distributed to all three of the remaining candidates. An analogous result occurred in the 2016 election.

Because no more than one candidate can receive a majority of the first-preference votes and to fix the problem noted above, the first and third sentences of the procedure above should be written as “If there are multiple positions for the same office to be filled and a candidate receives a majority of first-preference votes cast, then the candidate receiving the majority shall be declared elected.” and “If no candidate receives a majority of first-preference votes cast, the candidate with the fewest first-preference votes is eliminated in this stage of the vote counting; the second-preference votes for the eliminated candidate are redistributed to the remaining unelected candidates.”

With these changes in the vote counting any of the three remaining candidates could have been elected as the second Director-at-Large. I am not implying that the two candidates elected should not have been elected, only that the results could have been different with a corrected procedure.

Wendell L. Dilling
Midland, Mich.

(End of letter to the editor)

In an attempt to make this problem clearer I will go through the present procedure and then show what should have been done using a revised procedure with a hypothetical set of vote counts.

The results of the Director-at-Large, 2018-20, election was as follows (C&EN, Nov. 6, 2017, p 5):

	Round 1	Round 2	Round 3
Wayne E. Jones, Jr.	146	159	187
Barbara A. Sawrey	101	120	159
Bonnie (Helen A.) Lawlor	68	81	
Kenneth P. Fivizzani	50		

In the present procedure in Round 1, Jones did not have a majority of first-preference votes ($146/365 = 40.0\%$) so the candidate with the fewest first-preference votes, Fivizzani with 50 votes, was “eliminated from further consideration.” The second-preference votes on the ballots where Fivizzani was the first-preference were 13 for Jones, 19 for Sawrey, and 13 for Lawlor (5 voters did not select a second-preference). Adding these votes to those in the Round 1 column gave the numbers in the Round 2 column. Jones still did not have a majority of first-preference votes ($159/360 = 44.2\%$) so Lawlor was “eliminated from further consideration.” The next-preference votes (a combination of second- and third-preference votes) on the ballots which gave Lawlor 81 votes were 28 for Jones and 39 votes Sawrey (none for Fivizzani because he had been “eliminated from further consideration”) (14 voters did not select a next-preference). Adding these votes to those in Round 2 gave the numbers in the Round 3 column where Jones then had a majority of the votes ($187/346 = 54.0\%$) so Jones was elected. Because two Directors-at-Large were being elected and Sawrey was the only candidate remaining, she was elected. Or one could have distributed the second-preference votes on those ballots where Jones was the first-preference. Because Sawrey was the only candidate remaining, she was the only candidate to receive any of these second-preference votes and thus automatically won the second Director-at-Large position. Those voters who voted for Jones as their first-preference and either Fivizzani or Lawlor as their second-preference didn’t have their second-preference votes counted.

If the candidates that were “eliminated from further consideration” above were only “eliminated in this stage of the vote counting” the results could have been different. Because these possible vote distributions were not reported a hypothetical set of votes were used as an example as follows:

	Round 1	Round 2	Round 3	Round 4	Round 5
Wayne E. Jones, Jr.	146	159	187		
Barbara A. Sawrey	101	120	159	148	169
Bonnie (Helen A.) Lawlor	68	81		139	170
Kenneth P. Fivizzani	50			60	
Total	365	360	346	347	339

Rounds 1-3 were the same as reported in C&EN. These vote counts were only used to determine the first winner (Jones). At this point Lawlor and Fivizzani had not been eliminated for determining the second winner. They were only “eliminated in this (the first) stage of the vote counting” to determine the first winner.

To determine the second winner the vote counters reverted to the vote counts in Round 1 and added the second-preference votes on the ballots where Jones was the first-preference. These hypothetical second-preference votes were distributed as follow: 47 votes to Sawrey, 71 votes to Lawlor, and 10 votes to Fivizzani (18 voters who voted for Jones as a first-preference did not vote for a second-preference). Addition of these second-preference votes to the original first-preference votes in the Round 1 column gave the results in the Round 4 column. No candidate had a majority in Round 4 so Fivizzani was eliminated. The 60 next-preference votes were distributed 21 votes to Sawrey and 31 votes to Lawlor (8 voters did not vote for a next-preference) which gave the results in the Round 5 column where Lawlor had a majority of the votes and was the second Director-at-Large elected.

Thus, counting all the pertinent next-preference votes could have resulted in a different winner than the one actually reported.

E-Mail sent 4-10-18 to Tom Lane, member of N&E

I want to learn the outcome, if any, of the National N&E Committee discussion of the preferential voting procedure. Was it discussed? What is going to be done about the procedure?

E-Mail received 4-10-18 from Tom Lane

N&E did discuss the preferential voting procedure and in the end N&E has not changed their position (that the current procedure is OK).

E-Mail attachment sent 4-15-18 to Frank Walworth, Flint Lewis, and Les W. McQuire, staff liaisons and chair of N&E

I learned from Tom Lane that the N&E Committee had discussed the preferential vote counting procedure in New Orleans and had not changed its position on the current procedure, that it is OK. If the N&E Committee does not change its attitude on this issue I think that the ACS will have to run into a situation where the wrong candidate (the candidate with fewer votes) is actually elected before anything is done to change the current procedure. This is not likely to happen until an election occurs where the candidates for Director-at-Large who place second and third in first-preference votes have nearly the same number of such votes. *

As I noted (or implied by analogy) in a previous e-mail in both the 2016 and 2017 elections two candidates were eliminated prematurely and some of the votes of voters who voted for a second-preference where their first-preference was the first candidate to be elected were not counted.

I would like to determine how close we came to electing a candidate who would have received fewer votes than another candidate according to a corrected procedure in one of the last two elections. To do that I need some additional data from one of the last two elections, held in 2016 or 2017. In the following table I give the first-choice votes tabulations (from C&EN).

2016 Election		2017 Election	
<u>Candidate</u>	<u>1st-Preference Votes</u>	<u>Candidate</u>	<u>1st-Preference Votes</u>
Schulz	156	Jones	146
Phillips	83	Sawrey	101
Omberg	67	Lawlor	68
Heppert	43	Fivizzani	50

The difference in first-preference votes between the second and third places was 16 for the 2016 election and 33 for the 2017 election. Therefore, the possibility of the third-place candidate overtaking the second-place candidate with added second- and third-preference votes was greater in the 2016 election. The full results given in C&EN for the 2016 election were as follows:

<u>Candidate</u>	<u>Round 1</u>	<u>Round 2</u>	<u>Round 3</u>
Schulz	156	168	201
Phillips	83	97	125
Omberg	67	82	
Heppert	43		

From these numbers, we know that of the second-preference votes on the ballots where Heppert was the first-preference, 12 went to Schulz, 14 went to Phillips, and 15 went to Omberg (2 voters did not specify a second-preference). Of the 82 votes Omberg had in Round 2, 33 of the next-preference votes went to Schulz and 28 went to Phillips (21 of these 82 voters did not vote for a 2nd- or 3rd-preference).

To complete the Round 4 and Round 5 (if needed) columns for this table if the vote counting had been done correctly (according to my corrected procedure) I need the following data:

- 1) The number of second-preference votes on the 156 ballots where Schulz was the first-preference that went to each of the other three candidates.
- 2) The number of third-preference votes on the 12 ballots where Heppert was the first-preference and Schulz was the second-preference that went to Phillips and Omberg.
- 3) The number of third-preference votes on ballots where Schulz was the first-preference and Heppert was the second-preference that went to Phillips and Omberg.

It is possible that more data would be needed if Heppert received a very large number of second-preference votes on ballots where Schulz was the first-preference.

If all of this is too complicated then I could use the information on all the ballots from this election.

I would appreciate comments from you showing where my reasoning is incorrect.

Hoping to hear from any of you (or anyone else).

No communication has been received showing that my analysis is incorrect.

*** Such an election may have occurred in the very next election (C&EN, November 12, 2018, page 3). Candidates Frank Blum and Lee Latimer actually tied for second and third place in the Director-at-Large election.**

Announcing the 2019 Spring Awards Banquet and Call for Nominations

Diana Deese, Awards Committee Chair, Midland Section ACS

The Awards Committee is busy putting together the program and selecting a speaker for our event on April 24th where we will be recognizing outstanding educators, volunteers, and colleagues that **YOU** have graciously taken the time to nominate. 2019 is a momentous occasion as the Midland Section ACS will celebrate its 100th year. We hope to have some special commemorative items for the award recipients. I would encourage you to check out all the special events the Midland Section is hosting this year. Watch the March issue of *The Midland Chemist* for the banquet RSVP form.

Please consider joining us for a night of good food and great fun! To celebrate our section's centennial, my goal is to have a representative outstanding student from each of the high schools our area represents and to have a nominee for each award offered this year. I am counting on you to help make this happen as I know we have very deserving people in every category!

Consider getting your colleagues together for lunch and assembling a packet. If you are in a managerial role and are worried about favoritism, consider nominating 2-3 qualified persons (you will remain anonymous, if requested). If you feel you deserve an award, you can nominate yourself, or, consider having an outright discussion with your colleagues or supervisor. If you are a parent: Does your child have a great science teacher? If so, consider nominating him/her.

The nomination process is very easy. Nomination packets for all awards (except outstanding high school and collegiate student awards) must, at a minimum, consist of a current resume or equivalent, and at least one supporting letter in addition to your letter of nomination, all stating why the nominee is deserving of the award with specific examples of professional involvement/growth, contributions to industry, and outside affiliations. It is highly recommended that the nomination include a publications and patent list where applicable. Additional letters of support can come from students, parents, community members, and/or administrators.

I have listed previous award recipients in the January issue of *The Midland Chemist*, for nominees must not have received the award that they are being nominated for, within the past 10 years.

Nominations not meeting the minimum requirements, and submissions received after the March 22, 2019 deadline, will not be considered.

For those of you sequestered in labs who feel you might not be able to attend unless you nominate someone, I say save the date and come on out for a night of food, fun, and fraternization! Watch for more detailed information right here in *The Midland Chemist*!

As always, contact me if you have any questions: Diana Deese, Midland Section ACS Awards Committee Chair (dkdeese@dow.com).

Call for Nominations: 2019 Teaching, Volunteer, Education, Chemical Sciences Awards

Each year, the Midland Section of the American Chemical Society presents awards to recognize outstanding achievement in the chemical sciences. Nominations for the 2019 awards are invited for the following areas:

- 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
- Outstanding Achievement in the 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

Outstanding Science / Chemistry Teaching Awards

Candidates for the teaching awards must be educators at schools in the five-county geographical area of the Midland Section: Bay, Gratiot, Isabella, Midland, and Saginaw counties. One candidate will be recognized for their teaching contributions in each of the following categories: Elementary, Middle Level, High School, and College.

Science Education Volunteer of the Year

The Science Education Volunteer of the Year award is presented to an individual who makes a substantial contribution to science learning in the Midland Section through voluntary efforts.

Outstanding Achievement in the Promotion of Diversity in Chemistry, Related Sciences, and Engineering

This award recognizes a person or group residing in Midland, Bay, Saginaw, Isabella, or Gratiot County for outstanding achievement in enhancing the participation of under-represented groups in the study of chemistry, related sciences, and engineering. The nomination must come from a Midland Section ACS member. The criteria for this award include teaching, mentoring, serving as a role model, and active and sustained participation in organizations that support diversity which have had a demonstrable impact on the promotion of diversity in chemistry, related sciences, and engineering. Members of the Midland Section Minority Affairs Committee are ineligible to receive this award.

Outstanding Achievement and Promotion of the Chemical Sciences

Each year the Midland Section honors an individual residing within the Section's geographical area who has demonstrated outstanding achievement and promotion of the chemical sciences. This award recognizes dedication and service to the chemical profession, but the recipient need not be an ACS member.

Outstanding Service to the American Chemical Society

The Section sponsors an annual award to recognize outstanding service to the Midland Section of the ACS. This award recognizes achievement in the promotion of the goals and objectives of the Society. Nominees shall be members of the Midland Section. Nominations should include a history of service to the Midland Section, and supporting letters from fellow ACS members.

Outstanding Chemical Technician

The Section presents an annual Outstanding Chemical Technician Award to an individual who has demonstrated an extremely high degree of professionalism as a chemical technician. Nominees must have worked for five years as a chemical technician, or in a related field, and whose primary job includes conducting experimentation or correlating information to help solve chemical problems or discover new chemical knowledge. The nominee must have successfully completed a two-year post-high school level chemistry curriculum leading to an associate degree, the equivalent course in a baccalaureate program, or equivalent experience. Chemical technicians do not need to be an ACS member to be eligible for this award. Nominations

should include outside affiliations. *Request the National ACS nomination form from the awards chair to nominate in this category.*

Recipients of all awards will be selected by the Awards Committee with the exception of the Outstanding Achievement and Promotion of the Chemical Sciences award which is submitted to the Midland Section ACS Executive Committee for approval. Nominators should write a letter indicating the award and describing the attributes of the candidate.

The deadline for nominations is Friday, March 22nd, 2019. Nominations not meeting the minimum requirements, and submissions received after this deadline, will not be considered. Mail or fax submissions are acceptable; *electronic (e-mail) submissions are preferred*. All submissions must be accompanied by the name, position, address and phone number of the nominator.

Outstanding High School / College Chemistry Students

The Awards Committee also recognizes outstanding chemistry students at the high school and collegiate levels. Those students should be selected by their respective departments, and their names forwarded to the Awards Committee using the form attached to this call for nominations. One selection per school; no supporting letters needed.

Award recipients as well as Chemistry Olympiad winners and Fifty/Sixty/Seventy Year ACS Members will be honored at the 2019 ACS Spring Recognition Dinner at the Great Hall and Convention Center, in Midland, on Wednesday evening, April 24th, 2019.

The Awards Committee greatly appreciates the efforts involved in nominating someone, and wishes to thank you for helping to recognize deserving students, colleagues, and educators in our local section. Please pass this information along to anyone involved in our local science programs!

Now that you realize how exciting it is to nominate someone at the local level and you want to do more, I invite you to peruse the veritable cornucopia of awards the American Chemical Society offers at the national level. I have listed the web addresses where you can find the list of awards and the criteria for nomination. Now is the time to begin nominations for National ACS awards for 2019-2020 as most annual reviews have a deadline of around November 1. (<https://www.acs.org/content/acs/en/funding-and-awards/awards/national>)

For example nominations or more detail on any award, please contact Diana Deese. *Electronic submissions are acceptable and preferred.*

Diana K. Deese, Chair, Midland Section ACS Awards Committee

Phone: (989) 636-9915, E-mail: dkdeese@dow.com or awards@midlandacs.org



American Chemical Society – Midland Section

Nomination Form for 2019 Outstanding High School / Collegiate Chemistry Student (One per school)

Dept. Chair or other Nominator: _____

Telephone number: _____

E-mail address (required): _____

School: _____

Student's name: (Mr./Ms.) _____
(Indicate) (Please print legibly)

Home address: _____

Telephone number: _____

E-mail address (required): _____

Student's career/postgraduate plans (if known):

Please return this form to the following address no later than **March 22nd, 2019:**

Diana K. Deese
ACS Awards Committee Chair, Midland Section
Phone: (989) 636-9915
E-mail: dkdeese@dow.com

Countdown to 2019: Your Story Can Be a Part of the Centennial Exhibit

Gina Malczewski, Chair, 2019 Centennial Committee, Midland Section ACS

As we collect information to share in the Midland Section ACS Centennial exhibit, one of our focus areas is inter-scientist communication. Patents, books, and journal articles are an important part of this. Collecting 100 years of contributions made by Midland Section members is a daunting task, so we are asking you to share your own story. If you are or have been an ACS member, please tell us about any books or patents to which you have contributed (patent type and number designation and any other information is helpful). We also are interested in your bibliography. You can send data for a relative as well (just make sure that you identify him or her).

Please send your material to reginamalczewski@gmail.com and we will do our best to collectively celebrate all of the knowledge that Midland Section ACS members have shared with the world. Thank you.

Lapel Pins Are Available to Commemorate the 2019 Centennial Year and 50th CERM Meeting

Gina Malczewski, Chair, 2019 Centennial Committee, Midland Section ACS

Three sets of lapel pins (see next page) are available for purchase to celebrate the Midland Section ACS Centennial year and the 50th ACS Central Regional Meeting. The single ACS logo pin is \$3.00, the double logo pins are \$5.00 each, and the whole set of all three pins is \$12.00.

Our centennial designer, John Metcalf of Good Design, is responsible for the artwork. The pins are metal with an enamel finish and butterfly pin back. Proceeds will go toward the building and running of the centennial exhibit, including related educational programs in 2019. The dimensions of the single logo pin are 1 inch x 1 inch.



Contact Gina Malczewski (reginamalczewski@gmail.com) if you are interested in purchasing one or more pins, or the entire set. Thank you.

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

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

SAVE THE DATE


AMERICAN
CHEMICAL
SOCIETY

*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
Northwestern



LEARN FROM THE BEST AND BRIGHTEST MINDS IN CHEMISTRY

In Past Issues of *The Midland Chemist*

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

50 Years Ago, *The Midland Chemist* 1969, 5, No. 7 (January), 2.

In *The Chairman's Column* by K. L. Burgess, Chairman, Midland Section: "1919 – 1969, This year the Midland Section celebrates 50 years of activity. During this time the Section has grown until it now has over 1,100 members and this growth combined with changes in science and environment has created the need for many changes within the Section. It is easy to criticize a lack of activity of the Section if one attends the monthly meetings and yet we have a large number of committees covering a broad range of subjects and these groups are amazingly active. These groups cover service to the local community, service to our members, and service to the profession."

40 Years Ago, *The Midland Chemist* 1979, 16, No. 1, 113.

In *Blair Given ACS Award*: "Etcyl H. Blair, vice president for Health and Environmental Sciences for The Dow Chemical Company, is the recipient of the third annual Outstanding Chemist Award of the Midland Section of the American Chemical Society. The presentation was made November 4 at the 1978 Fall Scientific Meeting sponsored by the Midland Section, The Dow Chemical Company and Dow Corning Corporation."

30 Years Ago, *The Midland Chemist* 1989, 26, No. 2, 2.

In *Chairman's Corner* by Gretchen Kohl, Chairman, ACS Midland Section 1989: "Those Hardy souls that attended our first program on a rather wintry evening by ACS Tour Speaker Dana Isherwood, including our State Representative Dave Camp, were treated to an interesting talk on the political and technical hurdles faced in attempting a long term, safe storage site for high level nuclear waste."

20 Years Ago, *The Midland Chemist* 1999, 36, No. 2, 5.

In *Donald R. Weyenberg Travel Grants Announced*: "The Midland Section of the American Chemical Society has for many years provided small travel grants to students to allow those students to present their work at scientific meetings which they may otherwise have difficult(y) attending. The Midland Section has recently decided to permanently rename the travel grant as "The Donald R. Weyenberg Memorial Student Travel Grant" in honor of Don who strongly promoted science and believed in the value of students attending scientific conferences and presenting their work."

10 Years Ago, *The Midland Chemist* 2009, 46, No. 1, 22.

In *Members Take Issue with C&EN Dioxin Story* by Angelo Cassar, Wendell Dilling, Eldon Graham, and Dave Stickles: "This letter is similar to one we sent to the editor of Chem. Eng. News. We want the members of the Midland Section to be aware of the opinion of the authors.

This letter is being sent to you (the editor of Chem. Eng. News) regarding the cover story "Dow's Dioxins" (Aug. 11, 2008). We, as board members of the local ACS section (Midland, MI), felt that the article and accompanying photographs were misleading and lacked context.

The cover photo and opening editorial suggest that the Saginaw Valley region is a contaminated wasteland but we disagree. Further, we are disappointed that there was no mention of a recent University of Michigan study which showed that there was little correlation between dioxin levels in soil and/or household dust and levels found in human blood. Additionally, they found that there was no correlation between eating wild game and dioxin levels in blood. While eating contaminated fish did contribute to dioxin blood levels, the most important factor was age, regardless of where the person lived."

Upcoming Dates, Events, and Other Updates

- February 4 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting February 2019](#), meeting number/access code 718 136 494, phone number: 989-633-1166.
- February 8 (6:30-8:00 PM) – *Of Molecules and Melodies: The Neurochemistry of Music*, lecture by Prof. Ed Roth, Director, Brain Research and Interdisciplinary Neurosciences (BRAIN), Western Michigan University, and performances by local musicians, followed by a reception, Coleman Faith United Methodist Church, 209 Jefferson Street, Coleman. For more information, please contact Gina Malczewski at reginamalczewski@gmail.com.
- February 9 (11:00 AM – 3:30 PM) – Second annual “Skills Beyond the Bench: Leading with Passion!” presented by the Detroit and Midland sections of the ACS Women Chemists Committee. Hosted by University of Michigan-Flint at the Ramsdell Room Flint Farmers’ Market, 300 East First Street, Flint. **Registration deadline February 1.** See [page 5](#) for more information.
- February 12-13 – The Michigan Forest Biomaterials Institute (MiFBI) will host the 2nd Michigan Forest Bioeconomy Conference, The H Hotel, Midland. See [pages 6-7](#) for detailed information regarding this event.
- March 4 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting March 2019](#), meeting number/access code 711 738 100, phone number: 989-633-1166.
- March 22 – **Deadline for Midland Section ACS Spring Awards nominations** to honor outstanding educators, volunteers, and colleagues. For more information, contact Diana Deese, Midland Section ACS Awards Committee Chair, at dkdeese@dow.com or 989-636-9915.
- March 31 - April 4 – 257th ACS National Meeting & Exposition, Orlando, FL. For more information, see <https://www.acs.org/content/acs/en/meetings/national-meeting.html>.
- April 8 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, CMU Chemistry Department, Mount Pleasant (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- April 24 (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 1-4 – ACS Great Lakes Regional Meeting (2019 GLRM), Sheraton Hotel, Lisle, IL. For more information, see <https://www.acs.org/content/acs/en/meetings/regional/great-lakes.html>.
- May 6 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- June 4-8 – 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. The abstract submission portal should be open and available soon. Please watch for more information at <https://acscerm2019.org/>.
- June 10 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- June 23 (2:00 PM) – New event for 2019 – ACS Day at Dow Diamond. For more information, contact Michelle Rivard at michelle.rivard@dow.com.
- August 5 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- August 25-29 (Save the Date) – 258th ACS National Meeting & Exposition, San Diego, CA.

- September 9 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- October 7 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- November 4 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- December 2 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), 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
Mike Malczewski
(Open Position)

Editor (vllanger@dow.com)
Editor (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 2019 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 ACS Chair, Amanda Palumbo, at amanda.palumbo@dow.com.