

# THE MIDLAND CHEMIST

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## Midland Section Board of Directors Elections

***Michelle Cummings, Chair, Nominations and Elections Committee***

The Midland Section elections opened Monday, October 21, 2019 and closed Monday, November 11, 2019. Approximately 10% of the membership chose to participate in voting.

***Congratulations to our candidates that have been elected for 2020.***

Robbyn Prange – Chair-Elect  
Maude Desroches – Secretary  
Lauren McCullough – Treasurer  
Michelle Cummings – Chair Nominations and Elections  
Wendell Dilling – Director  
Wenyi Huang – Director  
Steven Keinath – Director

Thank you to all the nominees and all the Midland Section members!

## **Midland ACS has scholarships available!**

***Gina Malczewski, Midland Section ACS***

Since 2002, Midland ACS has offered scholarships to residents of our five-county area (Isabella, Gratiot, Midland, Bay and Saginaw) who are majoring in one of the chemical sciences. Current rules stipulate the applicant can be attending any Michigan college or university. An essay is required. The application window opens Dec 1 and closes March 1; details are available at the Midland Foundation website: <https://midland.egrant.net/login.aspx?PIID=147&OID=10>

We also accept donations to the fund, so if you are interested in helping us provide financial assistance to the next generation of chemists, please visit: <https://www.midlandfoundation.org/fund/midland-section-american-chemical-society-endowed-scholarship-fund-399/>.

In 2020 the Section will award TWO \$1500 scholarships. If you would like to volunteer to review applications, please contact Gina Malczewski ([reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com)) – the process is electronic and rubric-based.

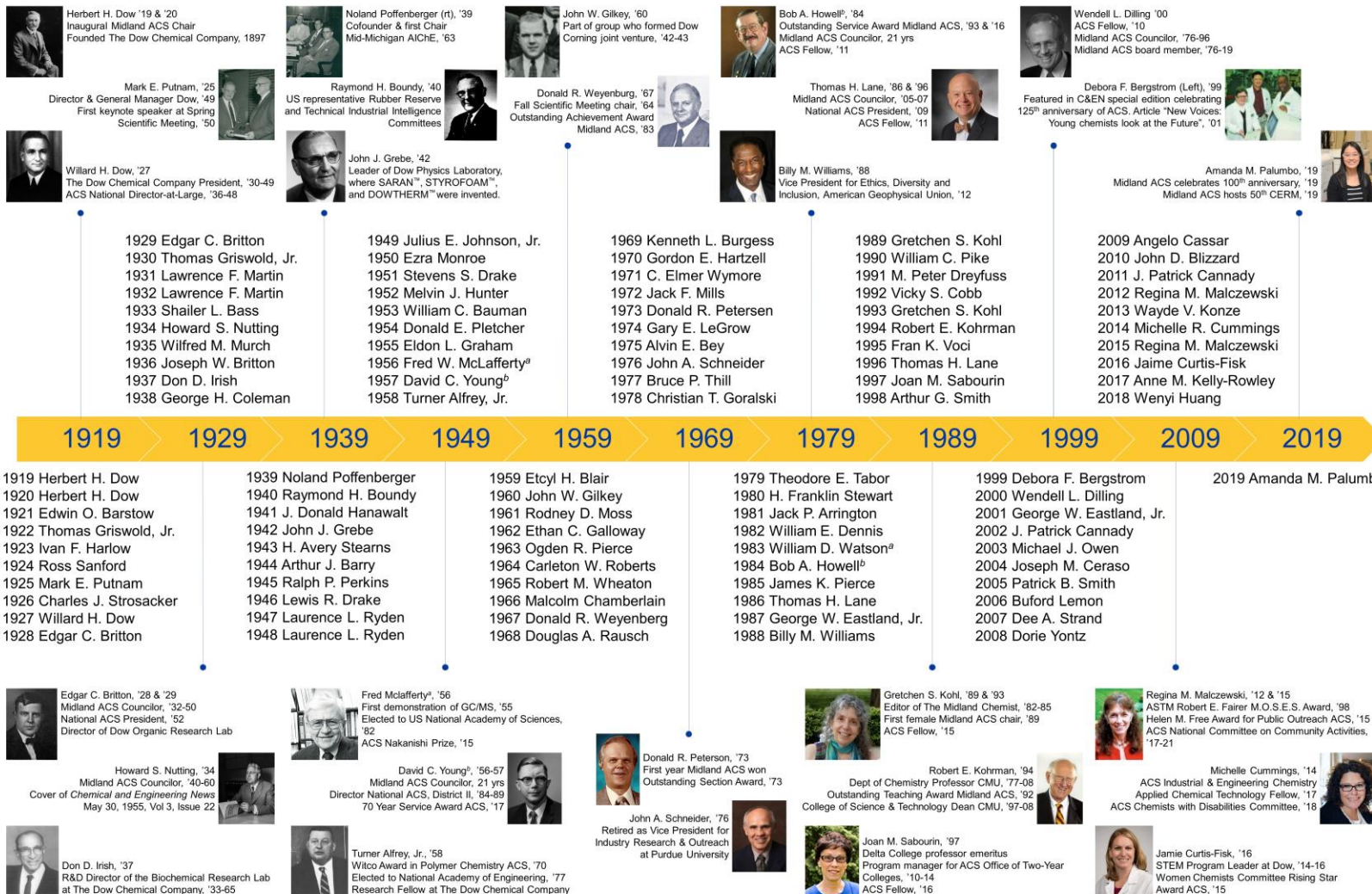
## **One Hundred Years of Midland Section ACS Chairpersons (1919-2019)**

***By David C. Young, The Dow Chemical Company, Midland, Michigan, retired; Robert E. Kohrman, Central Michigan University, Mt. Pleasant, Michigan, retired; Wendell L. Dilling, The Dow Chemical Company, Midland, Michigan, retired, Central Michigan University, Mt. Pleasant, Michigan, Midland Section Director and Historian; Amanda M. Palumbo, The Dow Chemical Company, Midland Section Chair***

The Midland Section of the American Chemical Society has been an outstanding local section for one hundred years because of a large group of talented individual members and support from industrial and academic institutions within the Section. One important group of 91 individuals are the past and present members who have served as Section chairpersons. All the names of these past and present chairpersons are listed in the figure, below, starting with Herbert H. Dow in 1919 and ending with Amanda M. Palumbo in 2019. Most Section chairpersons served for one year; the following served for more than one year: Herbert H. Dow, Thomas Griswold, Jr., Edgar C. Britton, Lawrence F. Martin, Laurence L. Ryden, David C. Young, Bob A. Howell, Thomas H. Lane, George W. Eastland, Jr., Gretchen S. Kohl, J. Patrick Cannady, and Regina M. Malczewski. These Section chairpersons in consultation with the other officers set the goals and overall direction of the Section for the year. Several activities of the Section carried over for many years so the chair had the responsibility for ensuring these activities continued successfully, by delegating responsibilities, and recruiting and guiding new officers and committee chairpersons. For example, the Fall Scientific Meeting has continued for 75 years (1945-2019 and counting). The chairperson of the Section served as the chairperson of the Board of Directors and the Executive Committee, presided over their meetings, and appointed all committees authorized by the bylaws or by the Board of Directors, except the chairperson and members of the Committee on Nominations and Elections. The chairperson was responsible for the overall operation of the Section, presided over general meetings of the Section, and helped prepare the annual Section report. The authors of this article have all served as Midland Section Chairpersons, DCY 1956-1957, REK 1994, WLD 2000, AMP 2019.

# One hundred years of Midland Section ACS chairpersons (1919-2019)

David C. Young '56-57, Robert E. Kohrman '94, Wendell L. Dilling '00, Amanda M. Palumbo '19



<sup>a</sup> Term served <1 year  
<sup>b</sup> Term served >1 year  
1919-1948 Chairs served mid-year to mid-year. Starting year denoted.

Acknowledgements  
Clarke Historical Library  
Midland County Historical Photograph Collection

**Family Astronomy and Telescope Night, December 3**  
**MSU St. Andrews**



MSU St. Andrews  
MICHIGAN STATE UNIVERSITY

## Family Astronomy and Telescope Night Dec. 3

Did you know that this is the best time to see the planet Saturn in the evening sky for the rest of the year? And that Venus, Mars, Mercury, and even Uranus are also visible? Are you aware that our largest neighbor, the Great Andromeda Galaxy, is easily visible this time of year? Are you ready for the meteor shower that peaks in December?

Bring the family to MSU St. Andrews in Midland to learn more!

Join us rain or shine - the indoor presentation will begin promptly at 6:30 p.m. followed by outdoor observing if weather permits.

View more details on the [event page](#).

**Tuesday, December 3, 2019, 6:30- 8:30 p.m., [MSU St. Andrews](#)**

**No registration is necessary. FREE!**

*Sketch by student Brandon Geib*



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Michigan State University programs, activities and facilities are available to all without regard to race, color, gender, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, age or familial status. Please inform us if you need any accommodation for accessibility at (517) 432-4499.

MSU St. Andrews | [Website](#)



Family Astronomy and Telescope Night [event page](#).



## **Local Resident Paper Listed by *Nature***

***Mark Jones, Midland Section ACS***

The journal *Nature*, in celebration of its sesquicentennial anniversary, selected 10 extraordinary *Nature* papers published over the last 150 years. Chemistry is well represented in the ten papers, with the structure of DNA, description of the chemistry causing the ozone hole, the discovery of C60 and the production of nanoporous materials appearing on the list. Reflecting *Nature's* place as one of the pre-eminent journals of science, more than half of the extraordinary ten papers are recognized with Nobel Prizes. Notable to the Midland Section is what *Nature* called "Birth of a class of nanomaterial", referencing the work of Midland resident and former Dow employee Charlie Kresge.

The paper, "Ordered Mesoporous Molecular Sieves Synthesized by a Liquid-crystal Template Mechanism" (Kresge, C.T., Leonowicz, M.E., Roth, W.J., Vartuli, J.C. and Beck, J.S., 1992. *Nature*, 359(6397), p.710.) describes methods using surfactant micelles to form a honeycomb-shaped, liquid-crystal structure. Silica layers were created from solution that deposited between the micelles, creating a highly ordered structure templated by the micelles. Drying and further heating the collected material produced an inorganic material that retained the honeycomb-shaped structure and yielding an ordered array of nanometer-sized pores. The work was completed at Mobil, Kresge's employer at the time. The material was named MCM-41, short for Mobil Composition of Matter No. 41. MCM-41 was a foundational advance, one now extended in many ways outlined in the recent *Nature* article. Creative chemists constructed ever larger and more complicated templates, expanding the method to make a growing number of materials. The materials are useful as catalysts in petrochemical conversions.

Charlie is well known to many in the Midland community. He left Mobil and joined Dow to lead efforts in Catalysis within what is now Core R&D. He subsequently became director of Core R&D and went on to be R&D Vice President for Basic Plastics and Chemicals, Hydrocarbons and Energy and Licensing. He retired from Dow in 2013 to become Chief Technology Officer of Saudi Aramco. Upon retirement from Aramco, he started a consulting business in Midland. He is a member of the National Academy of Engineering. Charlie is a 44-year member of the ACS, having joined the society in 1975. He became a member of the Midland local section in 1999 when he made the move to Dow in Midland.

Link – [10 extraordinary Nature papers](#)

## **"A Century of Science and Service" – Contests Are Still Open!**

***Gina Malczewski, Centennial Committee, Midland Section ACS***

The Midland Section ACS Centennial Exhibit at the Doan History Center on Main Street in Midland is open weekdays 9:00 AM to 5:00 PM, and during selected weekend hours as published on the Midland local section's website home page.

The exhibit holds all kinds of important and interesting information, and there are interactive activities. As an added incentive to help you check it all out, **we will enter the first 25 people who send an e-mail with answers to the following questions to [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com) (Centennial committee members are ineligible) in a drawing to win a \$25 Gratzi gift certificate!**

Please answer the following and tell us **where in the exhibit** you saw the answer:

1. What percentage of the human body is hydrogen?
2. What "number" is Ogden Pierce?
3. What happened on April 8, 1946?

In addition, there are **puzzle pages** and instructions for a longer **scavenger hunt** while you are at the exhibit, with prizes associated with both activities. There are also winning possibilities for visiting and giving electronic feedback (see the QR code at the Doan History Center). Good luck!

For any questions about the Centennial Exhibit, contact Gina Malczewski at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com) or Gretchen Kohl at [gretchen.kohl@att.net](mailto:gretchen.kohl@att.net).

### Ho Ho Holiday Science at Doan History Center, December 15

Gina Malczewski, Centennial Committee, Midland Section ACS

Join us for  
**Ho Ho Holiday Science**  
**December 15, 2019**  
1~2 pm at the  
**Herbert D. Doan**  
**Midland County History Center**  
3417 W. Main St, Midland, MI

**FREE!**

*Santa slime, poinsettia chemistry, holiday reactions and more! Do puzzles for prizes in our ACS history exhibit! Exhibit is open 12-4*

**All are welcome.**  
**Children under 6 must have adult supervision**

A photograph of a chemistry exhibit at the Midland County History Center. The exhibit features a large blue banner with the text "100th ANNIVERSARY EXHIBIT" and "Midland Section American Chemical Society". Below the banner is a large display case containing various items, including a periodic table, a model of a molecule, and a large poster titled "Chemistry: The Study of EVERYTHING!". The poster includes text about the history of chemistry and a QR code. The exhibit is decorated with colorful balloons and streamers.

**American Chemical Society – Midland Section**  
P.O. Box 2695, Midland, MI 48641-2695    [www.midlandacs.org](http://www.midlandacs.org)



## Seventy-Five Years of Midland Section ACS Spring and Fall Scientific Meetings, Part 2

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

For 75 years, the Midland Section has sponsored an outstanding annual meeting, the Fall Scientific Meeting (FSM). Originating in 1945, the 75th meeting was held on October 26 in the Section's centennial year, 2019. The longevity of this meeting attests to the value ACS members have placed in this meeting. Highlights of the history of this meeting were reported in its 50th year in *The Midland Chemist*, **1994**, 31, No. 6 (Sept. 23), 11-18 (see also <http://www.midlandacs.org/scientific-meetings/>), and also in its 75th year in *The Midland Chemist*, **2019**, 56, No. 1 (Jan.), 15-22.

These meetings have had a varied and interesting history. Early scientific meetings were organized by scientists at The Dow Chemical Company and Dow Corning Corporation and were attended chiefly by employees of those companies.

More recent ACS FSM's have been organized and attended by college faculty, high school teachers, students, scientists, and other people from a variety of organizations such as Central Michigan University, Saginaw Valley State University, Alma College, Delta College, and Michigan Molecular Institute, in addition to Dow and Dow Corning. Meetings in the past 30 to 40 years also have attracted scientists and students from outside of the Midland Section area such as Michigan State University, the University of Michigan, and Michigan Technological University.

These meetings have been held annually since 1945 except during 1974 when the meeting was cancelled because of a labor strike at Dow. As noted below, an extra meeting was held in 1962. Thus, the 75th meeting was held in the 75th year. The numbering system for the meetings was first used in 1952 with the 8th Meeting. The complete list of meetings, their locations, and general chairperson(s) are shown in Table 1.

Table 1. Dates, Locations, and General Chairperson(s) of Midland Section ACS Spring and Fall Scientific Meetings (1945-2019).

Meeting Number	Date	Location	General Chairperson(s)
1*	5-5-1945	Dow Chemical Company	K.D. Gordon Clack
Meeting in Miniature	9-15-1945	Dow Chemical Company	Lester J. Dankert
2*	5-18-1946	Dow Chemical Company	Julius E. Johnson, Jr.
3*	3-29-1947	Dow Chemical Company	Stevens S. Drake
4*	4-3-1948	Dow Chemical Company	Walter A. Henson
5*	4-23-1949	Dow Chemical Company	O. Ray McIntire
6	3-18-1950	Dow Chemical Company	William H. Beamer
7	4-21-1951	Dow Chemical Company	William C. Bauman
8	4-19-1952	Dow Chemical Company	Harold H. Roth
9	4-18-1953	Dow Chemical Company	Les J. Tyler
10	4-10-1954	Dow Chemical Company	Ray Duddleston
11	4-16-1955	Dow Chemical Company	Robert S. Busk
12	4-7-1956	Dow Corning Corporation	Paul V. Greenfield



13	5-4-1957	Dow Corning Corporation	John W. Vanderhoff
14	4-19-1958	Dow Corning Corporation	Robert W. Lenz
15	5-2-1959	Dow Corning Corporation	Jim J. Leddy
16	5-7-1960	Dow Chemical Company	Carleton W. Roberts
17	5-13-1961	Dow Chemical Company	Al K. Prince
18*	5-12-1962	Dow Chemical Company	Robert L. Johnson
19	12-8-1962	Delta College	John W. Pankey
20	11-9-1963	Central Intermediate School	Victor E. Meyer
21	11-7-1964	Central Intermediate School	Donald R. Weyenberg
22	10-30-1965	Central Intermediate School	Robert H. Lyons
23	11-5-1966	Central Intermediate School	Jim W. Leenhouts
24	11-4-1967	Central Intermediate School	Bart J. Bremmer
25	11-9-1968	Central Intermediate School	L. Victor Luoma
26	11-8-1969	H.H. Dow High School	John B. Moran
27	10-24-1970	H.H. Dow High School	John A. Schneider
28	10-30-1971	H.H. Dow High School	Ben A. Tefertiller, Jr.
29	11-11-1972	H.H. Dow High School	Steven M. Pulver
30	11-3-1973	H.H. Dow High School	William E. Broxterman
31	11-8-1975	H.H. Dow High School	Neal R. Langley
32	10-30-1976	H.H. Dow High School	Bob LaBarge
33	10-29-1977	H.H. Dow High School	Theodore E. Tabor
34	11-4-1978	H.H. Dow High School	Wendell L. Dilling
35	11-3-1979	H.H. Dow High School	Paula B. Moses
36	11-1-1980	H.H. Dow High School	James W. Edmonds
37	11-7-1981	H.H. Dow High School	Stephen H. Erickson
38	10-30-1982	H.H. Dow High School	Nile N. Frawley
39	10-29-1983	H.H. Dow High School	Robert T. Klun
40	10-27-1984	H.H. Dow High School	James C. Stevens
41	11-16-1985	H.H. Dow High School	Richard E. Donaldson
42	11-8-1986	H.H. Dow High School	Peter Y. Lo
43	10-31-1987	H.H. Dow High School	M. Peter Dreyfuss
44	10-22-1988	H.H. Dow High School	Stephen W. Froelicher
45	11-11-1989	H.H. Dow High School	Donald E. Kirkpatrick
46	10-13-1990	H.H. Dow High School	Norbert L. Maecker
47	10-26-1991	H.H. Dow High School	Steven J. Gluck
48	11-7-1992	Delta College	Steven A. Snow, Maris J. Ziemelis
49	10-23-1993	Delta College	Michael S. Paquette
50	11-5-1994	Delta College	James K. Rieke
51	11-4-1995	Delta College	Peter Y. Lo
52	10-26-1996	Delta College	Debora F. Bergstrom
53	11-1-1997	Central Michigan University	Philip J. Squattrito
54	10-31-1998	Saginaw Valley State University	George W. Eastland

55	10-30-1999	H.H. Dow High School	Eric Joffre
56	10-28-2000	Dow Chemical Company EDC <sup>#</sup>	Fred Vance
57	10-13-2001	Dow Chemical Company EDC <sup>#</sup>	Fred Vance
58	10-11-2002	Dow Chemical Company EDC <sup>#</sup>	Wendy Flory, Dale LeCaptain
59	10-17-2003	Dow Chemical Company EDC <sup>#</sup>	Wendy Flory, Dale LeCaptain
60	10-22-2004	Dow Chemical Company EDC <sup>#</sup>	Buford Lemon, Dale LeCaptain
61	10-14-2005	Dow Chemical Company EDC <sup>#</sup>	Gregg Potter
62	10-21-2006	Central Michigan University	Robin J. Hood, Wendell L. Dilling
63	10-19-2007	Midland Center for the Arts	Dale Meier
64	10-24-2008	Midland Center for the Arts	Mike Owen, Petar Dvornic, Mustafa Mohamed
65	10-10-2009	Delta College	Susan Rhodes, Matthew Gave
66	11-6-2010	Central Michigan University	Mary Tecklenburg
67	10-22-2011	Alma College	Melissa Strait
68	10-20-2012	Saginaw Valley State University	Dave Karpovich
69	10-5-2013	Delta College	Shawn Chen
70	9-27-2014	Delta College	Roja Ergun, Megan Thomas
71	10-24-2015	Saginaw Valley State University	Roja Ergun, Megan Thomas
72	10-22-2016	Saginaw Valley State University	Michael Vagnini
73	10-21-2017	Saginaw Valley State University	Peter Bai
74	10-13-2018	Saginaw Valley State University	Jennifer Larimer, Eve Suthiwangcharoen
75	10-26-2019	Saginaw Valley State University	Elizabeth Santos, Tom Bekemeier
* Closed Dow/Dow Corning Meetings			
# Employee Development Center			

The first five meetings (1945-1949) in what became the current numbered series were closed Dow/Dow Corning Scientific Meetings and were not open to ACS members in general. However, the Midland Section ACS was instrumental in the origin of these closed meetings. In 1944, a group of Dow scientists, Julius E. Johnson, Jr., Lewis R. Drake, and Jack L. Williams, sought local activities for the ACS to sponsor at Dow's headquarters in Midland, Michigan. Appreciating the advantages of a closed meeting, they obtained the approval of W.R. Veazey, Dow coordinator of research and patents, to hold several such scientific meetings in the following years. The chairmen of these closed meetings were selected by the ACS Midland Section.

In early 1945, the above-mentioned group and several other Dow researchers became concerned about the lack of a forum to present and learn about technical developments. Researchers had lost an opportunity to interact with others in their fields when the Spring and Fall 1945 National ACS Meetings were canceled owing to wartime conditions. As a result of this concern, an announcement was made at the 201st Midland Section ACS Meeting on March 20, 1945, that a committee consisting of Gordon Clack, Chairman, William F. Mick, Daniel R. Stull, and Jack Williams had been appointed to organize a "Spring Scientific Meeting." All papers scheduled for this first meeting were by invitation only. Several of

the papers had been presented previously at informal discussion group meetings held in the evenings in Dow facilities.

The first Scientific Meeting was scheduled for May 5, 1945. The March 20 Midland Section ACS meeting minutes state that "Inasmuch as it has been decided that the spring meeting must, due to lack of time and the confidential nature of some of the reports, be a Dow rather than an ACS affair, the Midland Section has severed all official connection with this committee. No announcement of the committee or of the meeting was or will be made in American Chemical Society meetings here." Thus, the first of the series of Scientific Meetings 74 years ago was not an ACS meeting, but was a closed meeting restricted to Dow and Dow Corning employees.

Saturday, May 5, 1945, the date of the first Scientific Meeting was three days before VE (Victory in Europe) Day. The program consisted of six presentations by seven authors, Norman Wright, "Identification of Organic Compounds By Infrared Spectra," Vernon A. Stenger, "Recent Developments in the Search for New Elements," George J. Atchison, "Analysis of Microgram Samples," Earle R. MacLaughlin, "Water Problems in the Midland Area," Julius E. Johnson, "Tropical Diseases Encountered in Military Operations," and William R. Collings and Shailer L. Bass, "Silicones as New Engineering Materials." Attendance at this first meeting was 120. In addition to the technical talks held in the Dow Auditorium, the program included special exhibits, a luncheon, and entertainment.

The Midland Section was officially involved in planning the next Scientific Meeting, which was called the "Midland Meeting in Miniature." It was held Saturday, September 15, 1945, in the Dow Auditorium. Archival records indicate that this meeting was not included in the numbered list of Midland Section ACS Scientific Meetings. The organizing committee consisted of Lester J. Dankert, General Chairman; Stevens S. Drake, Chairman of the Committee on Arrangements; Lorraine Boble, Chairman of the Entertainment Committee; and George J. Atchison, Chairman of the Publicity and Registration Committee.

The technical program, which was printed in the August 25, 1945, issue of *Chemical & Engineering News*, consisted of 14 papers by 32 authors. A photographic summary of the meeting was printed in "The Chemical News Parade" section of *Chemical & Engineering News* on October 10, 1945. A report in the archives indicated that a capacity audience (370 registrants) of scientific men was present in the meeting room and out in the foyer. The capacity audience attests to the attendees' desire for scientific interactions with their colleagues. This Saturday was the first in several years that they could call their own because prior to this time Dow had a six-day work week. After an all-day technical session from 8:15 AM to 3:45 PM, including a luncheon in the Dow Cafeteria, the attendees participated in an ACS dance entitled the Scientific Swing. The dance, arranged by the Entertainment Committee and the Dow Dance Committee, was held in the K of C Hall from 9:00 PM to 1:00 AM.

The first Midland Section Scientific Meeting of the numbered series that was open to all ACS members was the sixth, held on March 18, 1950. The first non-Dow/Dow Corning person to present a paper at one of these meetings was Howard Potter, Professor of Chemistry at Alma College, in 1951. The title of his paper was "The Reaction of Phenyl Lithium and Phenyl Magnesium Bromide with Some Alpha-Beta Unsaturated Sulfur Compounds."

The first five Scientific Meetings consisted of one morning session and one afternoon session. The next two meetings had two concurrent sessions each. The number of simultaneous sessions reached a maximum of 17 in 1982 and 1983. At least part of each of the first 11 meetings was held in the Dow



Auditorium. Other meeting locations were in the Dow Library, Cafeteria, Music Building, Abbott Road Building, and Employee Development Center, the Dow Corning Cafeteria and conference rooms, Delta College, Central Intermediate School, H.H. Dow High School, Central Michigan University, Saginaw Valley State University, and Alma College.

The first 23 meetings did not have a general theme. Most of the meetings starting in 1967 have had a theme. These were listed in Table 2 in the first article in this series (Part 1, see *The Midland Chemist*, **2019**, 56, No. 1 (Jan.), 15-22). The theme of the 75th meeting was “Marvelous Metals”. Sometimes the theme has coincided with the subject of the keynote address or the theme of National Chemistry Week. Many years the theme of the meeting has only related to a small portion of the meeting.

One of the quality aspects of these meetings has been the keynote speakers. These included three Nobel Prize winners, including one who would become a Nobel Prize winner, and eleven others who had been, were, or would become ACS Presidents. The three Nobel Prize winners are listed in Table 2. The eleven ACS Presidents are listed in Table 3.

Table 2. Nobel Prize Winners and Midland Section ACS Fall Scientific Meeting Keynote Speakers.

<b>FSM Keynote Speaker</b>	<b>FSM Keynote Speaker Year</b>	<b>Nobel Prize Year</b>
Melvin Calvin	1963	1961
Herbert C. Brown	1964, 1986	1979
Roald Hoffmann	1992	1981

Table 3. ACS Presidents and Midland Section ACS Fall Scientific Meeting Keynote Speakers.

<b>FSM Keynote Speaker</b>	<b>FSM Keynote Speaker Year</b>	<b>ACS Presidential Year</b>
Edgar C. Britton	1951	1952
Albert L. Elder	1960	1960
Melvin Calvin	1963	1971
William J. Sparks	1965	1966
W. Albert Noyes, Jr.	1969	1947
Anna J. Harrison	1977	1978
Fred Basolo	1987	1983
Bassam Z. Shakhashiri	1991	2012
Ronald Breslow	1996	1996
Attila E. Pavlath	2000	2001
Catherine T. (Katie) Hunt	2007	2007

The first recorded keynote speaker was Mark E. Putnam, Director and General Manager of Dow, in 1950. The first non-Dow/Dow Corning keynote speaker was Robert R. White, from the University of Michigan, in 1959. The complete list of keynote speakers is shown in Table 4.

Table 4. Keynote Speakers at Midland Section ACS Spring and Fall Scientific Meetings, and the Titles of Their Keynote Addresses (1950-2019).

Mtg. No.	Date	Keynote Speaker	Title of Keynote Speaker Address
6	3-18-1950	Mark E. Putnam, Director and General Manager, Dow Chemical Company	---
7	4-21-1951	E.C. Britton, Organic Research Lab, Dow Chemical Company	---
8	4-19-1952	W.R. Veazey, Dow Chemical Company	---
9	4-18-1953	S.L. Bass, Dow Corning Corporation	---
10	4-10-1954	R.F. Boyer, Dow Chemical Company	---
11	4-16-1955	J.J. Grebe, Dow Chemical Company	A Yardstick for a Ten Year Research Program
12	4-7-1956	W.H. Schuette, Dow Chemical Company	Research and the Race for Results
13	5-4-1957	T. Alfrey, Jr., Dow Chemical Company	University Research and Industrial Research in Chemistry
14	4-19-1958	A.T. Maasberg, Dow Chemical Company	Research and Development: Men, Projects and Products
15	5-2-1959	Robert R. White, University of Michigan	The Intellectual Horizons of Industrial Research
16	5-7-1960	Albert L. Elder, Director of Research, Corn Products Refining	Modern Technology in the Wet-Milling Industry
17	5-13-1961	J.E. Goldman, Associate Director Scientific Lab, Ford Motor Company	---
18*	5-12-1962	---	---
19	12-8-1962	Robert H. White-Stevens, R&D, Agricultural Division, American Cyanamid Company	The Facts and Fallacies of "Silent Spring"
20	11-9-1963	Melvin Calvin, Prof. of Chemistry, University of California	Chemical Evolution
21	11-7-1964	Herbert C. Brown, Prof. of Chemistry, Purdue University	An Academic View of Industrial Research
22	10-30-1965	William J. Sparks, Esso Research and Engineering Company	Age, Productivity and the Obsolescence of Chemists
23	11-5-1966	Daniel V. DeSimone, Director of the Office of Invention and Innovation, U.S. Department of Commerce	Innovation and Public Policy
24	11-4-1967	Leon W. Weinberger, R&D, Federal Water Pollution Control Administration, U.S. Department of the Interior	Research and Development in Water Pollution Control
25	11-9-1968	Henry B. Hass, Director of Research and Engineering Development Planning at Kellogg	Combating Personal Obsolescence
26	11-8-1969	W. Albert Noyes, Jr., Prof. of Chemistry, University of Texas	Chemist and the Social Structure
27	10-24-1970	Alfred A. Perry, Director of Operation BREAKTHROUGH, U.S. Department of Housing and Urban Development	Operation BREAKTHROUGH, A New Era in Housing

28	10-30-1971	Allan Hirsch, Director of Program Development, U.S. Environmental Protection Agency	EPA – Programs, Policies and Issues
29	11-11-1972	Richard E. Balzhiser, Assistant Director, President's Office of Science and Technology	The Realities of Our Energy Future
30	11-3-1973	Neil P. Ruzic, Neil Ruzic & Co., Chairman, Industrial Research Editorial Advisory Board	Interdisciplinary Innovation
31	11-8-1975	William D. Ruckelshaus, Past Administrator, U.S. Environmental Protection Agency	Science and Regulation: Bridging the Gap
32	10-30-1976	Jack B. Kinsinger, Director, Division of Chemistry, National Science Foundation	The Research Environment of the 1980's
33	10-29-1977	Anna J. Harrison, Professor of Chemistry, Mount Holyoke College	What Does Society Have the Right to Expect from Chemical Education?
34	11-4-1978	Steven D. Jellinek, Assistant Administrator for Toxic Substances, U.S. Environmental Protection Agency	The Toxic Substances Control Act of 1976
35	11-3-1979	Robert E. Olson, Professor of Biochemistry, St. Louis University Medical Center	Science and Public Policy in the Promotion of Health
36	11-1-1980	Patrick P. McCurdy, Manager of Public Issues, Dow Chemical Company	The Rise and "Fall" of the Chemical Industry
37	11-7-1981	Donald W. Peterson, U.S. Geological Survey, Dept. of the Interior	Mount St. Helens: The Eruption and the Scientific Response
38	10-30-1982	Ronald W. Davis, Department of Biochemistry, Stanford University School of Medicine	Genetic Engineering of Baker's Yeast
39	10-29-1983	Herbert D. (Ted) Doan, Doan Associates	Thoughts on Technology
40	10-27-1984	Albert C. Kolbye, Jr., President, Nutrition Foundation, Inc.	Regulatory Issues: Toxicity and Chemical Carcinogenesis
41	11-16-1985	James E. McEvoy, Executive Director, Council for Chemical Research, Inc.	The Council for Chemical Research – A New Direction in Private Support for Chemistry and Chemical Engineering
42	11-8-1986	Herbert C. Brown, Department of Chemistry, Purdue University	Asymmetric Syntheses via Chiral Organoboranes
43	10-31-1987	Fred Basolo, Professor of Chemistry, Northwestern University	Chemistry and the Quality of Life
44	10-22-1988	John D. Corbett, Iowa State University	Synthesis – Where New Materials Are Born and the Unexpected Turn Up
45	11-11-1989	Dagmar Cronn, University of Maine	The Impact of Atmospheric Trace Gases on Climate Change
46	10-13-1990	Derek Davenport, Purdue University	Bronsted and Before: The Evolution of the Terms Acid and Base
47	10-26-1991	Bassam Z. Shakhshiri, Professor of Chemistry, Univ. of Wisconsin – Madison	Developing a Will to Enhance the Quality of Science Education in America
48	11-7-1992	Roald Hoffmann, Professor of Chemistry, Cornell University	Molecular Beauty
49	10-23-1993	Robert Bradley Lienhart, Managing	A World Without Chlorine: Will an



		Director, Chlorine Chemistry Council	Element Be Banished?
50	11-5-1994	Walter Shackelford, Chief, Scientific Computing Branch, U.S. Environmental Protection Agency	Tomorrow's Tool Kit for Today's Chemist
51	11-4-1995	David L. Nelson, Director, Solid-State Chemistry and Polymer Programs, National Science Foundation	Frontiers in Materials Research at the National Science Foundation
52	10-26-1996	Ronald Breslow, Professor of Chemistry, Columbia University	Making the Case for Chemistry
53	11-1-1997	George S. Hammond, Visiting Professor, Bowling Green State University	Fifty Years of Chemistry: Where Has It Come? Where Is It Now?
54	10-31-1998	John P. Ochs, Director, ACS New Product Development	Reinventing Journals for the Web
55	10-30-1999	Richard M. Gross, Vice President and Director, R&D, Dow Chemical Company	The Contribution of Chemical Sciences Research to Innovation-Based Growth
56	10-28-2000	Attila E. Pavlath, Lead Scientist, Process Chemistry and Engineering Unit, Department of Agriculture, Western Regional Research Center	It Is Time for a Change
57	10-13-2001	Allen J. Bard, University of Texas – Austin, Editor-in-Chief, Journal of the American Chemical Society	Editing the Scientific Journal: Ethics, Peer Review, and the Future
58	10-11-2002	J. Michael Ramsey, Chemical and Analytical Sciences Division, Oak Ridge National Labs	Smaller, Faster, Cheaper, Better: Good for Electrons, Why Not Molecules
59	10-17-2003	Richard A. Gross, Polytechnic University, Brooklyn	Advances in Polyester Synthesis Using Lipase-Catalysis
60	10-22-2004	Donald E. Jakeway, President and CEO, Michigan Economic Development Corporation	Economic Development in Central Michigan: The Technology Tri-Corridor
61	10-14-2005	Richard Superfine, Dept. of Physics and Astronomy, University of North Carolina	Biological Hydrodynamics: From Cilia to Engineered Systems
62	10-21-2006	Dorothy Horan, Coordinator of Science, Midland Public Schools	Changing Requirements and Expectations in Science Education in Michigan
63	10-19-2007	Catherine T. (Katie) Hunt, Leader, Technology Partnerships, Rohm and Haas Company	Sustainable Chemistries: Environmentally Friendly and Economically Viable Innovations
64	10-24-2008	Manoj K. Chaudhury, Prof., Department of Chemical Engineering, Lehigh University	Surface Modification of Organic and Inorganic Materials
65	10-10-2009	Glenn S. Ruskin, Director of the Office of Public Affairs, ACS; Mary Kirchoff, Director of Education, ACS	The Chemistry of Advocacy; ACS: Serving Learners and Educators
66	11-6-2010	Evan Hadingham, Senior Science Editor, NOVA	Science Visualized: The Making of MAKING STUFF
67	10-22-2011	Ann Duffy, Corporate Sustainability Officer, Vancouver 2010 Organizing Committee, Olympic and Paralympic Winter Games	Ann Duffy – Raising our Game

68	10-20-2012	Gary J. Blanchard, Department of Chemistry, Michigan State University	Nanomaterials and Their Potential for the Community: From Portable Power to Chemical Sensing
69	10-5-2013	Jeremiah Johnson, University of Michigan	The Energy Challenges and Opportunities of the 21st Century
70	9-27-2014	Richard W. Hartel, Professor of Food Engineering, Univ. of Wisconsin – Madison	The Sweet Side of Chemistry
71	10-24-15	Jim McCusker, Michigan State University	Earth-abundant Transition Metal-based Chromophores for Light Capture: Challenges and Opportunities in Energy Science
72	10-22-16	Christopher S. Palenik, VP, Microtrace LLC	Forensic Microscopy and the Lost Art of Observation
73	10-21-17	Philip Robertson, Professor of Ecosystem Science, Michigan State University	Climate Change and Agriculture: It's Not Just About Adaptation
74	10-13-18	Allison Steiner, University of Michigan	Atmospheric Chemistry and the Biosphere: Natural Sources of Volatile Organic Compounds and Their Fate in the Atmosphere
75	10-26-19	Jerzy Klosin, Core R&D, Dow	Development of Molecular Catalysts for the Production of Ethylene-Based Copolymers
* Closed Dow/Dow Corning Meeting			

The Dow/Dow Corning Scientific Meetings from 1945 to 1949 and the ACS Scientific Meetings from 1950 to 1961 were held in the spring. In planning for the 1962 (18th) ACS Spring Scientific Meeting, the General Committee decided to make it a closed Dow/Dow Corning Meeting because of problems they saw with the ACS Scientific Meetings. These problems included the difficulty in obtaining an adequate number of cleared papers for the meetings, low attendance by Dow and Dow Corning people, limited attendance by non-Dow/Dow Corning people, failure of the meetings to draw submitted papers by non-Dow/Dow Corning people, and the perceived high cost of the meetings.

Because plans had been made for a closed spring meeting, the Midland Section Executive Committee passed a resolution to hold an open ACS Scientific Meeting in the fall of 1962. A letter written by the 1962 Midland Section chairman, Ethan C. Galloway, to local research directors, stated that “the ACS (Midland) Section heartily endorses an open meeting in some form.” Thus, began the Midland Section’s Fall Scientific Meetings, which have continued to the present day.

For the first 57 meetings, through 2001, the event was held on a Saturday. In an effort to increase attendance in 2002 the meeting organizers switched the meeting to a Friday. This experiment was repeated in 2003-2005 and in 2007-2008. Although many factors determine the attendance at the meetings, the switch may have increased attendance. Attendance figures are presented in Table 5 along with some data on Midland Section membership. Complete membership numbers are not given in Table 5, but the high and low points in the membership data are given. In general, attendance was significantly greater in the early years of the meetings, ~1945-1993.

Table 5. Midland Section ACS Spring and Fall Scientific Meetings, Dates, Day of the Week, Attendance, and Midland Local Section Membership (1945-2019).

Meeting Number	Date	Day of the Week	Attendance	Section Membership
1*	5-5-1945	Saturday	120	366
Meeting in Miniature	9-15-1945	Saturday	370	366
2*	5-18-1946	Saturday	---	407
3*	3-29-1947	Saturday	---	---
4*	4-3-1948	Saturday	---	---
5*	4-23-1949	Saturday	---	527
6	3-18-1950	Saturday	---	---
7	4-21-1951	Saturday	---	---
8	4-19-1952	Saturday	---	---
9	4-18-1953	Saturday	---	657
10	4-10-1954	Saturday	---	723
11	4-16-1955	Saturday	---	---
12	4-7-1956	Saturday	---	872
13	5-4-1957	Saturday	335	936
14	4-19-1958	Saturday	---	---
15	5-2-1959	Saturday	---	---
16	5-7-1960	Saturday	469	---
17	5-13-1961	Saturday	459	---
18*	5-12-1962	Saturday	---	---
19	12-8-1962	Saturday	~500	---
20	11-9-1963	Saturday	880	---
21	11-7-1964	Saturday	591	---
22	10-30-1965	Saturday	671	1,002
23	11-5-1966	Saturday	714	---
24	11-4-1967	Saturday	---	---
25	11-9-1968	Saturday	735	1,129
26	11-8-1969	Saturday	1,300	---
27	10-24-1970	Saturday	~1,100	---
28	10-30-1971	Saturday	~900	986
29	11-11-1972	Saturday	578	---
30	11-3-1973	Saturday	581	---
31	11-8-1975	Saturday	652	---
32	10-30-1976	Saturday	407	---
33	10-29-1977	Saturday	663	---
34	11-4-1978	Saturday	576	882
35	11-3-1979	Saturday	394	860
36	11-1-1980	Saturday	433	---
37	11-7-1981	Saturday	558	---



38	10-30-1982	Saturday	625	918
39	10-29-1983	Saturday	>600	---
40	10-27-1984	Saturday	526	1,005
41	11-16-1985	Saturday	389	---
42	11-8-1986	Saturday	321	---
43	10-31-1987	Saturday	427	---
44	10-22-1988	Saturday	410	---
45	11-11-1989	Saturday	565	1,082
46	10-13-1990	Saturday	402	---
47	10-26-1991	Saturday	667	---
48	11-7-1992	Saturday	440	---
49	10-23-1993	Saturday	200-250	999
50	11-5-1994	Saturday	~200	---
51	11-4-1995	Saturday	237	---
52	10-26-1996	Saturday	225	---
53	11-1-1997	Saturday	135	843
54	10-31-1998	Saturday	~200	---
55	10-30-1999	Saturday	191	---
56	10-28-2000	Saturday	164	---
57	10-13-2001	Saturday	155	---
58	10-11-2002	Friday <sup>#</sup>	280	---
59	10-17-2003	Friday <sup>#</sup>	333	---
60	10-22-2004	Friday <sup>#</sup>	260	---
61	10-14-2005	Friday <sup>#</sup>	248	713
62	10-21-2006	Saturday	72	---
63	10-19-2007	Friday <sup>%</sup>	>200	---
64	10-24-2008	Friday <sup>%</sup>	245	---
65	10-10-2009	Saturday	131	---
66	11-6-2010	Saturday	~1,400	---
67	10-22-2011	Saturday	~125	---
68	10-20-2012	Saturday	~130	---
69	10-5-2013	Saturday	~140	---
70	9-27-2014	Saturday	~110	---
71	10-24-2015	Saturday	~190	---
72	10-22-2016	Saturday	156 registrants	---
73	10-21-2017	Saturday	---	---
74	10-13-2018	Saturday	---	---
75	10-26-2019	Saturday	96	~650

\* Closed Dow/Dow Corning Meetings

# Dow Employee Development Center

% Midland Center for the Arts

In general, attendance by industrial chemical scientists dropped significantly in later years. A few years stand out for large attendances, namely, 1969, 1970, and 2010. There usually was some special circumstance that these large attendances could be attributed to. In some cases, there were additional attendees that usually did not attend Fall Scientific Meetings. In 1969, over 1,300 people viewed an exhibit on "The Transportation Industry (Chemical Innovation on Wheels)" during the day at the FSM; 225 automotive people were included in the 1,300 attendees. Counting the attendance at an afternoon session in 1970, which was a joint meeting of the ACS and SAE (Society of Automotive Engineers), the overall total attendance was ~1,100. The general theme of the meeting was Housing and Construction and included a symposium on the Development of Low-Cost Housing and a panel discussion on Construction Challenges in the 1970s. In 2010, the ~1,400 attendance count consisted of ~200 ACS members and ~1,200 from the public. The program was part of WCMU's month long "Making Stuff: The Science of Materials" campaign from PBS's NOVA program. Included were a science café for high school students, a workshop on speaking with the media, a SciCamp for children, two SciShows, a post-meeting social and Sci-Fest (see below).

The attendance figures for other years may include other non-traditional programs making comparisons of attendance figures for various years somewhat problematic. For many years, oral (platform) presentation was the only mode used at Midland Section Scientific Meetings. In 1977, the Section initiated poster paper presentations at the FSM's. Poster papers have become increasingly popular at recent meetings. At the 49th FSM in 1993, 31 papers were presented as posters and 33 papers were presented orally. In some recent years, nearly all of the contributed papers have been presented as posters.

Many high school students in the Midland Section area have participated in the ACS Project SEED (Summer Educational Experience for the Disadvantaged) program. Traditionally, the last learning event in their program is the presentation of the results of their summer research project on a poster at the FSM. The first such presentations, in 1978, were by Ruby J. Brink, Midland High School, and Rebecca D. Mills, Shepherd High School. Their preceptor, Bob A. Howell, and two Central Michigan University students co-authored their poster paper on "Derivatization of Naphthalene and Related Compounds Using (Arene) Tricarbonylchromium Complexes."

The first printed programs for the Scientific Meetings were published in *The Brine Well*, a Dow Chemical Company publication for employees, and in the *Midland Daily News* (1945-1950). Large folded sheets were printed for the programs in 1951-1952 and 1954-1959. The first of many printed program booklets appeared in 1953 and then again in 1960. These program booklets continued through 1976. The two-page program outline from the 1976 booklet was printed in *The Midland Chemist*. In 1977, the program was printed as an integral part of *The Midland Chemist* and again from 2006 to 2008. From 1978 to 1994, the program was printed as a booklet insert in *The Midland Chemist*, with extra copies of the booklet printed for other distribution. From 1995 to 1998, special issues of *The Midland Chemist* were devoted entirely to the FSM. Separate booklets were again printed in 1999-2005 and 2009-2012. Printing of a program booklet was discontinued in 2013. Portions of the program including abstracts were available online and information sheets were available at the meeting.

Exhibits have been an integral part of many of the Scientific Meetings starting with the first meeting in 1945. An exhibit of commercial instruments was part of the 1965 meeting. An exposition by commercial vendors of laboratory equipment, supplies, computers, and related items was added to the Scientific

Meetings in 1982; these have continued in some years to the present. These vendors have helped support the meetings financially.

In recent years, the Midland Section FSM's have expanded from their traditional role as a forum for the presentation of new research and development results. With the advent of National Chemistry Day in 1987, chemical demonstrations or "magic shows," primarily for children, were added to the Scientific Meetings. Workshops, presentations, and related activities for pre-college chemical educators were added in 1991.

Sci-Fest was added to the FSM in 1993. Sci-Fest was a fun and educational array of hands-on demonstrations, mainly for young people, and exhibits of Midland Section ACS programs and other science resources in the Midland Section area. It was also a recognition program for members who have served the Midland Section in various capacities. This recognition program replaced the FSM Speakers' Banquet that was formerly held on the Friday evening preceding the Saturday Scientific Meeting. In some recent years, the Sci-Fest program has been held separately from the technical program of the FSM.

The Spring and Fall ACS Scientific Meetings have been supported financially nearly every year from the beginning by The Dow Chemical Company and Dow Corning Corporation. Additional financial support has been derived from vendor fees.



## Sidney Harris Cartoon

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

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



"AT 9:30 SOME GOVERNMENT INSPECTORS WILL BE HERE. AT 11:15 WE HAVE A COUPLE OF ETHICISTS, THERE'LL BE A FEW LAWYERS AT 2, THE ENVIRONMENTALISTS AT 4:15..."

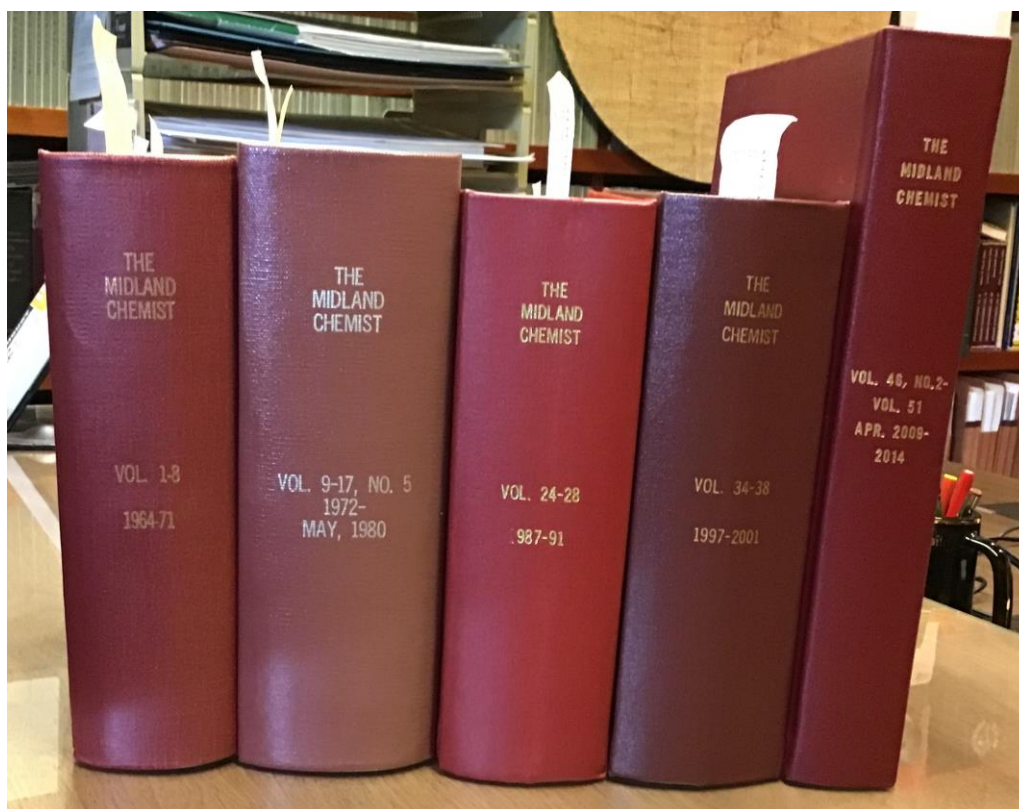
SIDNEY HARRIS

Chemists want to do chemistry. We are happiest when we are at the bench, surrounded by glassware, apparatus of all shapes and sizes and the ubiquitous safety equipment – or on our computer, performing simulations or modeling. It's where we are at our best and feel fulfilled and productive. Duties that take us away from that familiar environment such as regulatory affairs, environmental impact assessments, safety procedures, or ethics training can be seen as an unwelcome distraction from the excitement of doing science. But those tasks are critical to how we pursue our science. Today's chemists not only understand that but live by it. Safety and ethics are core to chemistry, front and center in chemists' minds. And our science is all the better for it. There is no doubt that what we now produce is of higher quality and is more responsive to the world in which we live than ever before. We thrive with those challenges and opportunities.

--- Bibiana Campos-Seijo, Editor in Chief, *Chemical & Engineering News*

## In Past Issues of *The Midland Chemist*

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



From these volumes . . .

**50 Years Ago**, *The Midland Chemist* **1969**, 6, No. 6 (Dec), 2.

In *The Chairman's Column*, *FINIS* by K. L. Burgess, Chairman, Midland Section: "The customary way to end a year is to try to summarize accomplishments and set the stage for the incoming officer. I might as well conform to tradition for a moment and state that we have accomplished a few things this year. Our 50th anniversary symposium was a success although it did not satisfy everyone, an impossible task. The program committee has embarked on a dramatic experiment, we have continued the excellence of the Midland Chemist under new leadership, and we have an academic man on our Board of Directors. All of our many committees have at least matched the success of previous committees on the same topics and the Midland section is meeting its goals in a variety of ways."

**40 Years Ago**, *The Midland Chemist* **1979**, 16, No. 9, 197.

In *Words from Washington* by Wendell L. Dilling, Councilor: "These words (councilor's report) are from the ACS Council Meeting, not from the federal government.

As of August 31, 1979, the ACS has a new record number of members: 117,298. The previous high was 116,816 in 1969. Approximately 8000 new members are expected in 1979. Even though the number of ACS members is at an all time high, only 1/2 of those persons eligible are members."

**30 Years Ago**, *The Midland Chemist* **1989**, 26, No. 8, 16.

In *Authors'/Awards Night Is Planned...*: "The Midland Section will hold it's (stet) Authors'/ Awards Night program in Mid-March to late April. Central Michigan University will be the site--details to follow later. This program is to recognize Midland Section members who published scientific books, articles, patents during 1988-1989 **AND** to recognize the Outstanding College Students and Chemistry Olympiad Students. A third purpose is to increase interaction among **SECTION** members by publicizing their areas of research. The program will feature approximately 20 poster papers by Midland Section authors based on publications during 1988-1989. Complete listings, obtained by your response and our search, will be listed in the **Midland Chemist**."

**20 Years Ago**, *The Midland Chemist* **1999**, 36, No. 8, 7.

In *ACS National Meeting, New Orleans, 8/23/99-8/27/99* by Deb Bergstrom, Janet Smith, Tom Lane: "The Midland Section along with other participating Michigan Sections received a Government Affairs Award during a reception given by the ACS National Legislative and Government Affairs Committee on Monday, August 23. The Michigan sections were recognized for activities in the public policy arena, specifically the most successful State Capitol Day, held in Lansing in May, 1999. The high level of support for this activity brought over 50 scientist(s) from across the state as well as ACS National Staff to speak to state legislators and legislative staff in an excellent program. The program has started the process of educating government representatives about policy issues critical to science and the ACS. The award highlights the efforts of the Michigan sections to open communications on the importance of chemistry in legislative decision making. We have offered to policy makers the use of local section members as resource on technical questions."

**10 Years Ago**, *The Midland Chemist* **2009**, 46, No. 6, 4.

In *The Midland Chemist—A Changing of the Guard* by Ann Birch, Midland Chemist Editor: "This is my 70th and last issue as editor of *The Midland Chemist*, and it's the first time I've foisted a column on the readership. That's pretty good! But I think after 10 years in this position I'll ask you to indulge me.

About 15 years ago or so Gretchen Kohl, a longtime active Midland Section member, asked me to help assemble a teacher affiliate newsletter for chemistry and science teachers. Where she got my name, I never found out and was really not too anxious to ask. I had been a member since 1976, but essentially an inactive one. But working with Gretchen and a couple of very excited teachers opened my eyes to an unbelievable array of science outreach being accomplished by a dedicated group of technical professionals. Some of them I knew, but most I did not. At that time, I had not actually practiced chemistry for about 10 years, having started a technical communications firm and worked as a technical writer and editor after 11 years as a research chemist.

As they say, one thing led to another, and I was elected several years as secretary and later as a director of the Section. At the end of 1999, I took over the editorship of *The Midland Chemist*, following a long line of very accomplished volunteer editors. Shortly after this I also took the positions of webmaster and database manager. I must admit that there were some really late nights and really early mornings when I wondered what I had gotten myself into. But three things kept me going: (1) I was using my skills to benefit someone else, (2) I had a share in a large number of technical and community projects with worthwhile objectives, and (3) I was working with a great group of people."

## Upcoming Dates, Events, and Other Updates

- 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.
- December 3 (6:30 – 8:30 PM) – Family Astronomy and Telescope Night, MSU St. Andrews, 1910 W. St. Andrews Road, Midland. FREE, No registration necessary. See flyer in this newsletter.
- December 15 (1:00 – 2:00 PM) – 2019 Midland Section ACS Centennial Exhibit program, *Ho Ho Holiday Science*, holiday chemistry and crafts, Herbert D. Doan Midland County History Center, Midland. FREE. See flyer in this newsletter. For any questions, contact Gina Malczewski at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com) or Gretchen Kohl at [gretchen.kohl@att.net](mailto:gretchen.kohl@att.net).
- January 6 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- February 3 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- March 2 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- March 22 – 26, 2020 (Save the Date) – Spring 2020 National ACS Meeting & Exposition, Philadelphia, PA. Meeting theme – *Macromolecular Chemistry: The Second Century*. For more information, and to submit an abstract, please see <https://www.acs.org/content/acs/en/meetings/national-meeting/abstract-submission.html>.
- April 6 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- May 4 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- May 27 – 29, 2020 (Save the Date) – 2020 ACS Central Regional Meeting, Columbus, OH. For more information, please see <https://www.acs.org/content/acs/en/meetings/regional/central.html>.
- June 1 (tentative date) (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.

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**Volunteer Staff**

Vickie Langer  
Steve Keinath  
Mike Malczewski  
(Open Position)

Editor ([vlanger@dow.com](mailto:vlanger@dow.com))  
Editor ([skeinath54@charter.net](mailto:skeinath54@charter.net))  
Webmaster, electronic distribution  
Membership roster, hardcopy mailings

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