

# THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

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## **Outreach First Quarter Flashback**

***Gina Malczewski, Past-Chair, and Michelle Rivard, Midland Section ACS***

2016 has already been busy for the Outreach group (Kids and Chemistry, and Teacher Support), with activities for educators, students and the general public. Here are the highlights:

- Jan 23: Kids' Day at the Midland Mall: activities around light, chemiluminescence and leuco dyes
- Jan 28: 30 minute hands-on sessions on density and polymers, and help with other demos at Hemmeter Elementary School's first ever "STEM night" (Saginaw)
- Feb 8 and 9: lab classes at Midland High School focused on the Alka-Seltzer reaction
- Feb 11: light activities with 8th graders at Bay City Western
- Mar 3: a 4-hour teacher workshop at the Michigan Science Teachers Association meeting (Lansing), many topics
- Mar 5 and 6: two separate full-day teacher workshops at Pittcon in Atlanta, many topics
- Mar 7-9: 15 student workshops in Atlanta: three density activities

-Mar 18: light and kaleidoscope-making with 1st through 4th graders at Auburn Elementary

We continue to respond to teacher requests, and will soon begin an after-school science club at St. Brigid School in Midland. We are planning summer activities as well. If you have questions or would like to volunteer, please contact Gina Malczewski at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com).

## **Planning for 2019 Midland Section Centennial Exhibit at the Herbert D. Doan Midland County History Center Has Started**

***Wendell L. Dilling, Midland Section Historian and Chair of 2019 Exhibit Committee***

The year 2019 will be significant for the Midland ACS Section when it celebrates 100 years of existence. Other landmarks reached in 2019 will include the 50th Central Regional ACS Meeting, which will be hosted by the Midland Section in Midland, and the 75th Fall Scientific Meeting. The Section officially had its start on December 8, 1919, when it received a charter from the national ACS.

All early Section members were employees of The Dow Chemical Company, including Herbert H. Dow, the Company founder and the first Chairman of the Midland ACS Section. These people and their impact on the community and the world are proposed as a major focus of the exhibit. Section members and their stories including how they made the world better by their inventions and discoveries as documented by their awards and patents, some involving familiar items, are important aspects of Midland Section history planned for inclusion. Recognition of the student outreach programs the Midland Section helped shape and create will be featured. Some smaller exhibits may be developed for installing in areas outside of Midland. Hundreds of other Section members followed Herbert Dow as Section officers. These people's names and some of their stories will be included in the exhibit as well as those of many other people, plus related artifacts and mention of significant Section events.

A group of Section members recently met with Gary Skory, Director of the Herbert D. Doan Midland County History Center, to make preliminary plans for having a centennial exhibit at the Center, tentatively from May through December 2019. The Section's Board of Directors has allocated funds to help construct the exhibit. The purpose of this report is to alert members about these plans, request suggestions, and encourage members to help with the exhibit's planning and construction.

We are seeking the following kinds of artifacts for the exhibit:

- Photos of Midland Section officers, other members, and events
- Original patents by Section members
- Personal and Section ACS awards or mementos
- Notebook or personal journal excerpts about the Midland Section or technologies developed by Midland Section members

The Section has extensive archives in the Clarke Historical Library at Central Michigan University that will also be a source of many artifacts. We are also seeking volunteers to help select some of these pieces of history.

If you are interested in suggesting the inclusion of particular Section activities or artifacts for this exhibit, or would like to help install the exhibit(s), please contact me at [dilli1wl@cmich.edu](mailto:dilli1wl@cmich.edu) or [w.dilling@att.net](mailto:w.dilling@att.net).

## Kids and Chemistry wins a National CEI Award

***Gina Malczewski, Past-Chair, and Michelle Rivard, Midland Section ACS***

On March 15 at the National meeting in San Diego, Gina Malczewski and Michelle Rivard, representing the local Kids and Chemistry group, were presented with the ACS Committee on Environmental Improvement Award for Incorporation of Sustainability into Chemical Education. At the related symposium, Gina spoke about the recognized work, which included classroom presentations, after-school and enrichment programs, and the garden and recycled greenhouse activities of 2015 that produced donations of nearly 200 lb. of produce and dried herbs to two neighborhood food pantries and a culinary program at the Saginaw Career Complex. The same talk was submitted by request for consideration at the upcoming CERM in Covington, KY.



Gina and Michelle pictured with members of the CEI committee.

Left to right: Cathy Middlecamp, Sherine Obare, Gina Malczewski, Michelle Rivard, and Tony Noce (chair).

*(Photo courtesy of Gina Malczewski)*

## April 4 ACS Board Meeting to be Held at CMU - Updated

*Dale LeCaptain, Councilor, Midland Section ACS*

Editor's note: The STEM seminar previously schedule to take place at 4 PM has been cancelled. The networking and dinner will still take place beginning at 5:30 PM.

## April 4<sup>th</sup> Board Meeting at CMU



Fellow Board, Committee, and **ALL** ACS Members:

CMU's Chemistry/Biochemistry Department invites you to a special edition of the monthly Midland Section ACS board meeting on Monday April 4<sup>th</sup>.

Meeting time is 7 pm on the campus of CMU, Room 135 Dow Science Bldg.  
(for the GPS – 203 Ottawa Court, Mount Pleasant).

Free parking after 4 pm.

In appreciation of your travels, the CMU student members invite you to a free DINNER before the meeting!

Starting at 5:30 pm the students will be serving the best of the best college food fare. Mac 'n cheese, Raman noodles, hot dogs, and many more of your favorites will be served in the Dow Building main corridor so you can enjoy dinner while taking advantage of pre-meeting networking.



### Special Features for the April Meeting:

College Dinner served starting at 5:30 pm  
(main hallway of Dow Science Bldg.)



View and experience the latest in classroom technology as the meeting is being held in the CMU College of Science and Engineering Active Learning Classroom (Room 135, Dow Science Bldg.)



Monthly board meeting starts at 7 pm!  
(All members are always welcome.)



Post meeting social...

Come check out the CMU Fermentation Science inaugural brews.  
(Hunter's Ale House, 4855 E. Blue Grass Road, Mt Pleasant)

## ACS Dinner Meeting with Jacqueline K. Barton, April 12 – RSVP by April 5

**Beata Kilos, Director and Women Chemists Committee Chair, and Tamlin Matthews, Membership Committee Chair, Midland Section ACS**


The Midland Section of the American Chemical Society Women Chemists Committee will be hosting a dinner meeting featuring 2015 National ACS Priestley Medalist Jacqueline K. Barton on Tuesday, April 12, 2016. The event will be held at the Great Hall Banquet & Convention Center in Midland, beginning at 5:30 PM with cocktails and a time for networking. This will be followed by a plated dinner at 6:00 PM. Dr. Barton will give an after-dinner presentation on the *Chemistry of DNA* beginning at 7:00 PM.



Dr. Barton is the Arthur and Marian Hanisch Memorial Professor of Chemistry at the California Institute of Technology. She is also a member of the Board of Directors of The Dow Chemical Company, serving in that role since 1993. Jackie is the recipient of a number of distinguished awards and recognitions. Among her more notable honors are the 2010 National Medal of Science, the highest honor bestowed by the US government on scientists, and the 2015 Priestley Medal, the highest honor bestowed by the American Chemical Society.


(Photo: Jacqueline K. Barton. Photo courtesy of J.K. Barton.)


Tickets are \$5 each, and to RSVP please send an e-mail note to [midlandwcc@gmail.com](mailto:midlandwcc@gmail.com). For more information or for questions, please contact Beata Kilos ([BAKilos@dow.com](mailto:BAKilos@dow.com)) or Tamlin Matthews ([TDMatthews@dow.com](mailto:TDMatthews@dow.com)).

**ACS**  
Chemistry for Life®

The Midland Section of the American Chemical Society  
**Women Chemists Committee Presents:**

*Women in Science Series*  
**Chemistry of DNA**  
*Jacqueline K. Barton*





**Tuesday, April 12<sup>th</sup>, 2016**  
Cocktails at 5:30 pm  
Dinner at 6:00 pm  
Seminar at 7:00 pm

**The Great Hall Banquet Center**  
5121 Bay City Rd, Midland, MI

**RSVP by April 5th**  
[midlandwcc@gmail.com](mailto:midlandwcc@gmail.com)  
Plus pre-pay for dinner \$5/person  
Via PayPal on the Midland ACS website:  
<http://www.midlandacs.org/>

Dr. Jacqueline K. Barton is the Arthur and Marian Hanisch Memorial Professor of Chemistry and Chair of the Division of Chemistry and Chemical Engineering at the California Institute of Technology. In October 2011, Dr. Barton received the 2010 National Medal of Science from President Obama. In 2015, she received the ACS Priestley Medal. She was elected to the Dow Board of Directors in 1993, and currently serves as chair of the Environment, Health, Safety and Technology Committee.

***Café Insecta at Dow Gardens Visitor Center, April 6***  
***Dow Gardens***

Wednesday, April 6, 6:30pm - 7:30pm

Join us for an insect celebration at Dow Gardens Visitor Center! Learn about entomophagy, using insects as a food source, in a short presentation. We'll follow up with a cooking demonstration and sampling some of our favorite insect-recipe Hors d'oeuvres! Included with regular admission to Dow Gardens.

See <http://www.dowgardens.org/butterflies> for more information.

***Science Café: Michigan Morel Mushrooms, April 14***  
***AB Dow Museum of Science & Art, Midland Center for the Arts***

Thursday, April 14, 2016, 7:00 PM. Held in the Saints & Sinners Lounge at the Midland Center for the Arts. Appropriate for ages 14 and up.

Join Dr. Vic Eichler, author of *Morel Mushrooms in Michigan and Other Great Lakes States* to learn tips and tricks (exact locations will not be shared) on where, when, and how to find areas to forage for morels.

This special event has been carefully planned in preparation for the big “seasonal pop” of these mushrooms in our climate. Seeking the “elusive” delicacy is great fun and exercise for the whole family, but don't worry if you can't find them on every excursion. These funky fungi can easily be home dried and brought back to plump and nutty treasures for you to enjoy with your copy of the book's recipes at any time!

Admission to the event will include a sample of a morel mushroom recipe from Dr. Eichler's book. Following the talk the author will gladly sign books. Reserve a copy of your book today by purchasing in advance to receive a \$3 discount.

**Tickets:** \$8.00 event only, \$17.00 event plus pre-purchased book. *Limited space available! For a guaranteed spot, please register early.* See [Michigan Morel Science Cafe](#) for more information and to purchase tickets.



**ACS Spring Awards Recognition Dinner, April 27 – RSVP by April 15**  
**Diana Deese, Awards Committee Chair, Midland Section ACS**

## **ACS Recognition Dinner**

Wednesday, April 27, 2016  
5:30 p.m. to 9:00 p.m.

Great Hall Banquet & Convention Center at Valley Plaza  
5121 Bay City Road  
Midland, Michigan

Program:  
5:30 p.m. Cash Bar and Social Time  
6:00 p.m. Dinner  
7:00 p.m. Awards Presentations

**E**ducators, students, ACS and industry colleagues, and 50- and 60-year ACS members/retirees will be recognized for their outstanding achievements at this 25th annual event. Our guest speaker this year is our very own Mr. Jeff Yoder of Midland High School. Mark your calendar and join us in support of our award recipients, to connect with colleagues, or just to mingle with a diverse group of people passionate about science!

The cost of the dinner is \$16.00 per person and includes a plated chicken dinner, dessert, and beverage. A pre-dinner cash bar will be available this year as highly requested by those in attendance last year. Your dinner reservation request must be received by April 15, 2016. Using the format below, you may register by e-mail to Diana Deese ([dkdeese@dow.com](mailto:dkdeese@dow.com)) and pay at the door, or by mail using the address indicated. Dress is business casual.

This event is sponsored by the Midland Section of the American Chemical Society. For further information, contact Diana Deese at (989) 636-9915.

To reserve a place at the 2016 ACS Recognition Dinner, return this form with payment (\$16.00/person) by **April 15, 2016**, to Diana Deese, The Dow Chemical Company, 1897 Building, E-bay East: E65, Midland, MI 48667.

Name(s): \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Phone/E-mail: \_\_\_\_\_

ACS member? Yes / No (indicate by circling your member status)

Dietary Considerations: \_\_\_\_\_

Enclose payment of \$16.00 per person. Checks should be made payable to “Midland Section ACS”.

Payments can now be made via PayPal to [Treasurer@midlandacs.org](mailto:Treasurer@midlandacs.org) (please login to PayPal and select the “friends and family” option when paying).

## **Earth Day Expo at Midland Center for the Arts, April 16**

***Gina Malczewski, Past Chair, Midland Section ACS***

Saturday, April 16, 2016, from 10:00 AM to 2:00 PM. FREE ADMISSION!

Join area organizations to celebrate Earth Day with demonstrations and hands-on activities for all ages. The 11th Annual FREE Earth Day Expo at the Midland Center for the Arts is co-sponsored by the Alden B. Dow Museum of Science and Art, American Chemical Society–Midland Section, and Midland Recyclers. For more information, see [Earth Day Expo](#).

## **The Chemistry of Crisis: What Happened to Flint's Water?, April 16**

***Gina Malczewski, Past Chair, Midland Section ACS***

Apr 16, 2016, MCFTA Lobby

2-3:30 pm, FREE Admission



Metals such as iron, copper and lead are widely used in water distribution systems. All these materials can corrode. A lesson in the critical importance of corrosion control can be seen in the recent problems in Flint. Flint was once a robust city due to a booming automotive industry, but has been for nearly 50 years suffering an economic decline so severe that it has compromised the ability of the city to provide essential services. The City of Flint is currently home to about 99,000 residents, down from a peak of about 197,000 in 1960. For the decade prior, the Detroit Water and Sewerage Department (DWSD) supplied drinking water to the city from Lake Huron. In an attempt to reduce costs, on April 25, 2014, the City of Flint began operation of their own drinking water treatment plant using water from the Flint River as the source. In the subsequent weeks, the drinking water quality for Flint residents plummeted. Residents complained of red colored water. A rapid increase in water use also occurred. High levels of lead were seen in the water in many residences. This was only the beginning of months of problems that have now led to the City, State and Federal governments declaring a state of emergency in Flint. What really happened in terms of the science and engineering of water treatment? What have we learned and what is being done to address this situation? How can events such as this be prevented from happening at other locations?

Dr. Masten teaches water and wastewater engineering, physico-chemical processes, air pollution, and capstone design in the Department of Civil and Environmental Engineering at Michigan State University. Her research involves the use of chemical oxidants for the remediation of soils, water, and leachates contaminated with hazardous organic chemicals. She has worked extensively on the development of drinking water treatment technologies for the control of disinfection byproducts, nanoparticles, bromate, and pharmaceuticals in drinking water. Dr. Masten holds a patent on a hybrid ceramic membrane filtration and an ozone-fluidized bed carbon system. She has published over 100 publications and graduated over 50 MS students and 12 Ph.D. students.



The Midland Section of the American Chemical Society and MCFTA  
present

## The Chemistry of Crisis: What Happened to Flint's Water?

April 16, 2016 2-3:30 pm

Midland Center for the Arts, 1810 W. St. Andrews, Midland, MI

**FREE and  
open to the  
public**



Earth Day  
2016

Featuring  
**Professor Susan Masten,  
Ph.D., P.E.**

Civil and Environmental Engineering  
Michigan State University



- What is the science and engineering behind what happened?
- What have we learned?
- Can this happen elsewhere?



### Part-time Teaching Position at Midland Academy of Advanced and Creative Studies

*Susi Sadek, HR and Systems Professional, Midland Charter Initiative*

I am trying to fill a part-time chemistry teaching position for grades 9-12 at the Midland Academy of Advanced and Creative Studies. As such, I am reaching out to the members of the Midland Section of the ACS to see if anyone would be interested in a long-term substitute teaching position for the remainder of the 2015-16 school year.

The candidate does not need to be a certified teacher, as there are other options available that will allow an otherwise qualified subject matter expert to teach. Ideally, I would like to find someone who is interested in a long-term position, but there are other options available depending on the candidate's background and education.

Please e-mail Susi Sadek at [sadeks@midlandcharter.org](mailto:sadeks@midlandcharter.org) or call me at 989-496-2404 if you have any interest in this position, or for any questions.

## 13th Annual ChEMS Research Forum, May 12

### MSU ChEMS Department

The Department of Chemical Engineering and Materials Science (ChEMS) at Michigan State University would like to invite you to join us at the 13<sup>th</sup> annual ChEMS Research Forum on Thursday, May 12, 2016. The forum is a full-day event, running from 8:00 AM to 5:00 PM, and will be held at the Huntington Club at Spartan Stadium on the campus of MSU.

This year's ChEMS Research Forum will showcase departmental research advances in the areas of:

- Energy and Sustainability
- Nanotechnology and Materials
- Biotechnology and Biomedical Engineering

The one-day program will feature plenary speakers, posters, and oral presentations describing the latest department research. This year's featured speakers and their lecture topics include:

- **Matthew Neurock**, Shell Professor, Chemical Engineering and Materials Science, University of Minnesota, *Computational Catalyst Design*
- **Deborah (D.F.) Mielewski**, Senior Technical Leader, Materials Sustainability, Ford Research and Innovation Center, *Greening the Blue Oval: Research and Development of Sustainable Materials at Ford*
- **Scott Calabrese Barton**, Associate Professor, Chemical Engineering and Materials Science, Michigan State University, *Enhancing Intermediate Transport in Multistep Reactions*
- **Andre Y. Lee**, Associate Professor, Chemical Engineering and Materials Science, Michigan State University, *Novel Chemical Modifier for Aluminum-Silicon Casting Alloys*

Registration, lunch, and refreshments are complimentary, but pre-registration for the forum is requested. To register for the event, go to <http://www.chems.msu.edu/forum2016/Registration>.

For more information, see <http://www.chems.msu.edu/forum2016>, or call the MSU ChEMS Department at 517-355-5135, or send an inquiry by e-mail to [chems@egr.msu.edu](mailto:chems@egr.msu.edu).

## Upcoming Events Sponsored by the Mid-Michigan Section of AIChE

### Defne Kayrak-Talay, Program Chair, Mid-Michigan AIChE

All Midland Section ACS members are cordially invited to attend any of several invited-speaker events hosted by the Mid-Michigan Section of the AIChE. These meetings are held at the Grand Traverse Pie Company, 2600 North Saginaw Road, in Midland. Admission is free and may be accompanied by a limited supply of free sandwiches or pizza with other food available for purchase on site. Meeting times and locations are subject to change, so be sure to check out the [Mid-Michigan AIChE](http://www.midlandacs.org) website for any updates to the schedule.

Some of the following events may be of interest to Midland Section ACS members. More information on each of these events, including presentation abstracts and short bio sketches of the presenters, is available or will

be updated periodically in upcoming issues of the [MMAIChE Newsletter](#). You may also contact Bruce Holden (Secretary, Mid-Michigan AIChE) at [bsholden@dow.com](mailto:bsholden@dow.com) or 989-636-5225 for more information.

- **Jeff Zawisza**, Fellow, The Dow Chemical Company  
*Advanced Manufacturing*  
April TBD, 2016, 6:00 PM dinner (optional), 7:00 PM presentation

### **In Memoriam – Fred Donald Hoerger** **Steve Keinath, Co-Editor, *The Midland Chemist***

Editor's note: Fred Hoerger's obituary as it appears here is reprinted, in part, from the March 8, 2016 issue of the *Midland Daily News*. His obituary makes mention of the fact that he was a member of the American Chemical Society.



Fred Donald Hoerger, 87, beloved father, grandfather, brother and friend, died peacefully of natural causes on March 5, 2016, in Midland. His family was at his side. Fred was born January 3, 1929 to Eldon F. and Marena Lorena (Herman) Hoerger. He grew up on a farm near Wadsworth, OH, and graduated from Wadsworth High School in 1947.

Fred attended Heidelberg College in Tiffin, OH, where he earned a B.S. degree in chemistry and education. He received an M.S. and a Ph.D. in organic chemistry from Purdue University. In 1951, Fred married his college sweetheart, Helen Louise Goodin, in Canton, OH.

Fred worked for 37 years for The Dow Chemical Company as a chemist, laboratory director, regulatory specialist, and director of regulatory and legislative issues for the Health and Environmental Sciences Department. He represented the company as chair on several committees at the American Industrial Health Counsel and the Chemical Manufacturers Association. In Washington, DC, he testified at EPA hearings and before congressional subcommittees.

Fred was a longtime member of the American Chemical Society and served on their national committee on Environmental Improvement. In 1992, he was named a Fellow of the Society for Risk Analysis. He authored or coauthored a number of patents and more than 40 journal articles, book chapters, and presentations at conferences on regulatory and environmental issues. Fred's keen intellect and relentless curiosity led him to join the World Future Society, where in retirement he continued to be actively engaged in exploring how imagination and discovery could help create a better world.

He was a past president of the Midland Kiwanis Club, a past member of Midland Jaycees and junior achievement advisor, and he also served as Boy Scout Committee Chair, as Cubmaster, and as a Little League baseball coach. He was a member of the First United Methodist Church of Midland, and served on many committees over the years.

With his wife Helen, Fred participated in a church mission trip to Jamaica in 1993 and to Russia in 2007. Fred looked back on annual family camping trips as among his favorite memories. With Helen, they outfitted a tent

trailer and with their five boys took many wonderful road trips to national parks and historic and cultural sites across the nation at a time before cell phones existed.

In the years following his retirement in 1991, Fred and Helen traveled to 43 countries, including many Elderhostel trips that combined education with new experiences. They hiked in the Alps, rode bicycles along the Danube River, went on an African safari, and walked along the Great Wall of China. For 10 years, Fred and Helen spent winters in Palm Desert, CA, where they enjoyed bicycling, hiking, bridge playing, and attending church and other activities. Fred enjoyed playing bridge and other card games with friends and family, and will be remembered as a savvy competitor. He also enjoyed woodworking, world history, following the stock market, and visiting family.

The family would like to thank Bickford House and their caring staff, Southern Care Hospice Services, and the many friends who helped brighten Fred's days during these last few years.

Fred was preceded in death by his wife of 59 years, Helen, who died in 2011; and by his parents; his stepmother, Matilda Mathews Schweitzer Hoerger; brothers, Dale William Hoerger and Earl H. Hoerger; daughter-in-law, Mary Hoerger; and grandson, Nathaniel Jay Hoerger. He is survived by sons, Bruce (Karen) of Midland, Carl (Janelle) of Boise, ID, Tom (Susan) of Chapel Hill, NC, David (Ginny) of Saratoga, CA, and Steve (Jenny) of Denver, CO; and by 16 grandchildren; 12 great-grandchildren; and three great-great-grandchildren. Fred also is survived by a brother, Glen Eldon Hoerger (Janet) of Wadsworth, OH, and by many nieces and nephews.

Funeral Services took place at 11 a.m. on Tuesday, March 15, 2016, from the First United Methodist Church in Midland. The Rev. Dr. Charles Keyworth officiated, with cremation following. Inurnment took place later in the Midland Cemetery. Fred's family received friends at the Ware-Smith-Woolever Funeral Home, 1200 West Wheeler Street, Midland, on Monday, March 14, 2016, from 2-4 p.m. and 6-8 p.m., and at the church on Tuesday, March 15, 2016, from 10 a.m. until the time of the services. Those planning an expression of sympathy are asked to consider the Midland Kiwanis Foundation for the support of Midland County Youth, or the Helen Goodin Hoerger Memorial Scholarship at the PEO Foundation, 3700 Grand Avenue, Des Moines, IA, 50312 (specify that the donation is for the Helen Hoerger fund).

### **In Past Issues of *The Midland Chemist***

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

**50 Years Ago, *The Midland Chemist* 1966, 3, No. 1 (April), 8.**

In *The Chairman's Column* by M. Chamberlain, Chairman, Midland Section: ""Does close cooperation and support mean that the Midland Section has become an extension of the two largest chemical concerns in the area?" Having been exposed for more than five years to the thinking in the research administration of both The Dow Chemical Company and Dow Corning, I am personally convinced that their intent is to be genuinely supportive and independent of the ACS as well as the A.I.Ch.E. and other technical societies. For the most part, I believe the desired independence exists, but in some cases it tends to fade."

**40 Years Ago, *The Midland Chemist* 1976, 13, No. 4, 5.**

In *A History of the Midland Section of the American Chemical Society* by S. P. Klesney: "National recognition of the Section came first in 1930 when Herbert H. Dow was presented the Perkin Medal and again in 1952 when E. C. Britton was elected president of the American Chemical Society. Dr. Britton was also recipient of the 1956 Perkin Medal, the highest honor in American industrial chemistry bestowed annually for outstanding achievement in applied chemistry in the United States."

**30 Years Ago, *The Midland Chemist* 1986, 23, No. 3, 2.**

In *Editor's Note* by Steven E. Keinath, Editor, *The Midland Chemist*: "This issue of *The Midland Chemist* features a variety of statistical and demographic data profiling the current membership of the "Midland" local Section of the American Chemical Society. The statistical data were obtained from the National office of the ACS and reflect a "snapshot" portrait of the Midland section as of January 1, 1986. Thanks go to Tom Lane for preparing the bar graph on the front cover and the pie graphs contained within."

**20 Years Ago, *The Midland Chemist* 1996, 33, No. 3, 3.**

In *From the Chairman.....* By Thomas Lane, Chairman, Midland Section: "Please mark your calendars now for the 29<sup>th</sup> ACS Central Regional Meeting which will be hosted by the Midland Section on May 27-30, 1997. The theme for the meeting is 21<sup>st</sup> Century Chemistry: Partnership of Academia, Industry and Society. This event will help celebrate The Dow Chemical Company's 100<sup>th</sup> anniversary and explore the multiple roles of a chemist as scientist, entrepreneur and citizen!"

**10 Years Ago, *The Midland Chemist* 2006, 43, No. 2, 1.**

In *Chair Column, Welcome to 2006! (at last)* by Buford Lemon, Chair ACS Midland Section: "As a nonnative Michigander, I'm still stunned by the half-year event called 'winter'. Sometime before Thanksgiving, we all hunker down, load in a sea voyage's worth of supplies, caulk the openings, call the relatives, and plan to sit tight until the hours of daylight surpass the five-hour mark once again. Then, 7 or 8 months later, we emerge from our lean-tos pale and blinking on that first nice day (the weekend of March 11 this year) and begin really thinking about the new year.\*

\*I exaggerate a bit-winter here just feels like 6 months of darkness on the Arctic tundra."

## Upcoming Dates, Events, and Other Updates

- April TBD (6:00 – 8:00 PM) – MMAICHe sponsored lecture, *Advanced Manufacturing*, presented by Jeff Zawisza, Fellow, The Dow Chemical Company. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 7:00 PM presentation. More information, including presentation abstract and short bio sketch of the presenter, is available or will be updated periodically in upcoming issues of the [MMAICHe Newsletter](#). You may also contact Bruce Holden (Secretary, Mid-Michigan AIChE) at [bsholden@dow.com](mailto:bsholden@dow.com).
- April 1 – 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](mailto:dkdeese@dow.com) or 989-636-9915.
- April 4 (5:30-6:30 PM) – CMU students will treat Midland Section ACS members to a FREE *College Dinner*, featuring the best of the best of college food fare (Mac 'n' cheese, Raman noodles, hot dogs, and other favorites). Location: Main corridor area of the Dow Science Building. For more information, see page 4.



- April 4 (7:00 – 9:00 PM) – ACS Board meeting, Room 135, Dow Science Building, Central Michigan University (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), phone number: 866-299-7945, participant code: 9837036#. For more information, see page 4.
- April 4 (9:00 PM – ??) – Post-Board meeting social, featuring CMU's Fermentation Science program inaugural brews, Hunter's Ale House, 4855 East Blue Grass Road, Mount Pleasant. For more information, see page 4.
- April 6, 2016 (6:30–7:30 PM) – *Café Insecta*, Dow Gardens Visitor Center, 1809 Eastman Avenue, Midland. Included with regular admission to Dow Gardens. See <http://www.dowgardens.org/butterflies> for information.
- April 12, 2016 (5:30 – 8:00 PM) – Evening dinner meeting with Dr. Jacqueline K. Barton, 2015 National ACS Priestley Medal recipient; Chair, Division of Chemistry & Chemical Engineering and Arthur & Marian Hanisch Memorial Professor, California Institute of Technology; and Board member of The Dow Chemical Company. Location: Great Hall Banquet & Convention Center, 5121 Bay City Road, Midland. 5:30 PM, cocktails and networking; 6:00 PM, plated dinner; 7:00 PM, after-dinner presentation by Dr. Barton on the *Chemistry of DNA*. Tickets are \$5 each; see page 5 for additional ticket information. To RSVP please send an e-mail note to [midlandwcc@gmail.com](mailto:midlandwcc@gmail.com) by April 5. For more information or for questions, please contact Beata Kilos ([BAKilos@dow.com](mailto:BAKilos@dow.com)) or Tamlin Matthews ([TDMatthews@dow.com](mailto:TDMatthews@dow.com)).
- April 14 (7:00 PM) – *Science Café: Michigan Morel Mushrooms*, Saints & Sinners Lounge, Midland Center for the Arts, Midland. Appropriate for ages 14 and up. Tickets: \$8.00 event only, \$17.00 event plus pre-purchased book by author/presenter Dr. Vic Eichler, *Morel Mushrooms in Michigan and Other Great Lakes States*. Limited space available. For a guaranteed spot, please register early. See [Michigan Morel Science Cafe](#) for more information and to purchase tickets.
- April 15 – Deadline to RSVP for the Midland Section ACS Spring Awards Recognition Dinner, to be held on Wednesday, April 27, at the Great Hall Banquet & Convention Center, Midland. The cost of the dinner is \$16.00 per person and includes a plated chicken dinner, dessert, and beverage. You may RSVP by e-mail to Diana Deese at [dkdeese@dow.com](mailto:dkdeese@dow.com) and pay at the door the evening of the event. For more information, or for any questions, contact Diana Deese, Midland Section ACS Awards Committee Chair, at [dkdeese@dow.com](mailto:dkdeese@dow.com) or 989-636-9915. See page 7 for additional registration and ticket information.
- April 16 (10:00 AM – 2:00 PM) – Earth Day Expo at Midland Center for the Arts. Demonstrations and hands-on activities for all ages. FREE admission. For more information, see [Earth Day Expo](#).
- April 16 (2:00 – 3:30 PM) – *The Chemistry of Crisis: What Happened to Flint's Water?* Seminar presented by Dr. Susan Masten of Michigan State University. Location: Midland Center for the Arts Lobby. FREE admission. For more information, see pages 8-9.
- April 27 (5:30 – 9:00 PM) – Midland Section ACS Spring Awards Recognition Dinner, Great Hall Banquet & Convention Center, 5121 Bay City Road, Midland. 5:30 PM, cash bar and social time; 6:00 PM, dinner; 7:00 PM, awards presentations. The cost of the dinner is \$16.00 per person and includes a plated chicken dinner, dessert, and beverage. To reserve a place, your RSVP must be received by Diana Deese, Awards Committee Chair, no later than Friday, April 15, 2016. You may RSVP by e-mail to Diana at [dkdeese@dow.com](mailto:dkdeese@dow.com) and pay at the door the evening of the event. For more information, or for any questions, contact Diana Deese, Midland Section ACS Awards Committee Chair, at [dkdeese@dow.com](mailto:dkdeese@dow.com) or 989-636-9915. See page 7 for additional registration and ticket information.
- May 2 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), phone number: 866-299-7945, participant code: 9837036#.
- May 12 (8:00 AM – 5:00 PM) – 13<sup>th</sup> Annual ChEMS Research Forum, Huntington Club at Spartan Stadium, Michigan State University, East Lansing. Registration, lunch, and refreshments are complimentary, but



pre-registration to attend the forum is requested. To register for the event, go to <http://www.chems.msu.edu/forum2016/Registration>. For more information, see <http://www.chems.msu.edu/forum2016>, or call the MSU ChEMS Department at 517-355-5135, or send an inquiry by e-mail to [chems@egr.msu.edu](mailto:chems@egr.msu.edu).

- May 18–21 – 47<sup>th</sup> ACS Central Regional Meeting, Covington, KY. For more information, see <http://www.acscerm2016.org/main/>.
- June 6 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), phone number: 866-299-7945, participant code: 9837036#.
- August 1 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), phone number: 866-299-7945, participant code: 9837036#.
- August 21–25 – 252<sup>nd</sup> ACS National Meeting & Exposition, Philadelphia, PA. For more information, see <http://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html>.
- September 12 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), phone number: 866-299-7945, participant code: 9837036#.

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