

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

April 2015, Vol. 52, No. 4

Contents

Chair Column	1
New Earth Day Programs – April 11, 18, 25, and 30	2
ACS Spring Awards Recognition Dinner – RSVP Deadline, April 23	3
2015 Joint Great Lakes Central Regional Meeting.....	4
Conferences, Classrooms, Cafes and Collaborations: Outreach so Far in 2015	5
Councilor's Report, 249 th ACS National Meeting, Denver.....	5
ACS National Awards for 2015–2016 Nomination	6
In Past Issues of <i>The Midland Chemist</i>	8
Upcoming Dates, Events, and Other Updates	9

Chair Column

Gina Malczewski, Chair, Midland Section ACS



The first quarter of 2015 is already behind us and it's time for some updates. The website revision has hit an unexpected software snag that should be corrected by the time you read this (so we will be where we should have been a month ago). We are arranging for Leadership classes to be held this fall. We have nominated two worthy candidates for ACS Fellows, hosted a Regional ACS Director for a diversity event, and have already completed many successful Outreach activities (see accompanying article in this issue.)

There is a new excitement about Earth Day – "green" thinking is an attitude that should prevail all year, so we have filled April with activities and presentations designed to inform and inspire us long-term. Be sure to read the related article for more information, and plan to attend what you can. There should be something for almost anyone – plus PRIZES!

We are saddened by the sudden changes at Michigan Molecular Institute, and are also aware of the presence of many new local retirees in our midst. We are here to provide support for our colleagues and their families – and options for those who would like some new challenges. Some senior-focused activities are being planned, and retirees are highly valued as Outreach volunteers, so please consider contacting me or one of the other Board members (or Gretchen Kohl for Silver Circle program involvement) if you have an interest.

We encourage your attendance at the Midland Section ACS Recognition Dinner event on May 6, where we will honor local teachers, students, volunteers and our long-term members. Please support this important activity by planning to attend! It is critical that we get our own members more involved in local section activities. We have won Outstanding Section Awards from National for two years running (in 2012 and again

in 2013; 2014 nominees have not been announced yet), but the most important sign of a healthy Section is the participation of its members and the community-at-large.

New Earth Day Programs – April 11, 18, 25, and 30

Gina Malczewski, Chair, Midland Section ACS

Something new this year for Earth Day to extend the celebration and instill a new way of thinking – we are promoting a "passport" series with the Midland Center for the Arts (MCFTA). This program will resemble the "passport" you sometimes get at large expos where you go to various booths and get a stamp to indicate that you have visited, and then enter your completed stamped card into a raffle to win prizes.

We are offering a number of events in April that align with the Earth Day themes of sustainability, recycling, water and energy conservation, etc. Below is a list of what is happening. Please use any contacts you have available to publicize these events. At each event, an attendance list will be taken, and at the end of April, we will put the names into a hopper and raffle off items like gift certificates to the Saginaw Zoo, Dow Gardens, MCFTA and Lowe's. Of course, the more events you attend, the more times your name will be entered in the raffle drawing.

Date/Time	Place	Speaker/Activity	Title/Subject
April 11 10:00 am to 2:00 pm	MCFTA Lobby	Earth Day Expo	Many exhibits and activities (all ages)
April 18 10:00 am	SVSU Greenhouse, Science East Room 117	Louis Pressel and Ed Meisel	<i>Global Warming: Vermiculture and More</i> (ages 14 +) (Free plants and worm tea)
April 18 1:30 to 3:00 pm	Creative 360, 1517 Bayliss Street, Midland	Gina Malczewski and volunteers	Girl Scout Energy Expert badge activity, hands-on with water and solar energy (grades 4-9)
April 25 10:00 am to 2:00 pm	5001 11 Mile Road, Auburn	Boy Scouts Celebrate Earth Day (open to all)	Hands-on activities related to pollution, paper recycling, water purification, simple machines and more (all ages)
April 30 7:00 pm	Bay City Western High School Auditorium	Sarah Lowe, NOAA	<i>Gyres of Junk: Garbage in Our Lakes and Oceans</i> (ages 14 +)

ALL EVENTS ARE FREE! However, to reserve a seat please register ahead of time with Gina Malczewski at reginamalczewski@gmail.com.

ACS Spring Awards Recognition Dinner – RSVP Deadline, April 23
Diana Deese, Awards Committee Chair, Midland Section ACS

ACS Recognition Dinner

Wednesday, May 6, 2015, 5:45 p.m. to 9:00 p.m.

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

Program:

6:00 p.m. Buffet Dinner

7:00 p.m. Awards Presentations

Educators, students, ACS and industry colleagues, and 50- and 60-year ACS members/retirees will be recognized for their outstanding achievements at this 23rd annual event. I am excited to announce that Dr. Thomas Lane, esteemed scientist and honorable ACS member, will be our featured speaker. Mark your calendar and plan to 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 \$14.00 per person and includes a plated chicken dinner, dessert, and beverage. Your dinner reservation request must be received by April 23, 2015. Using the format below, you may register by e-mail to Diana Deese (dkdeese@dow.com) and pay at the door, or by mail using the address indicated.

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 2015 ACS Recognition Dinner, return this form with payment (\$14.00/person) by **April 23, 2015** 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 \$14.00 per person. Checks should be made payable to "Midland Section ACS".

2015 Joint Great Lakes Central Regional Meeting
Vickie Langer, Editor, The Midland Chemist

The ACS invites you to the 2015 Joint Great Lakes Central Regional Meeting (JGLCRM), to be held May 27–30 at the DeVos Place in Grand Rapids, Michigan. Advance registration is now open. Visit the [JGLCRM website](#) for up-to-date program information.

ACS JGLCRM in Grand Rapids

SAVE THE DATE May 27-30, 2015

Joint Great Lakes – Central Regional Meeting



Grand Rapids, MI | jglcrm2015.com

The co-hosting Sections are the Kalamazoo Section in the Great Lakes Region and the Western Michigan Section in the Central Region.

Program co-chairs

James J. Kiddle
Kalamazoo Section
James.Kiddle@wmich.edu

and

Mark Thomson
Western Michigan Section
MarkThomson@ferris.edu

General co-chairs

Lydia E. M. Hines
Kalamazoo Section
lemhwgh@gmail.com

and

Neal Fox
Western Michigan Section
NealFox@comcast.net

THEME:
Chemistry
A Grand Enterprise

Plenary Speaker:

Scott Denmark
11 a.m., May 27 (Wed)

Keynote Speakers:

Joan Brennecke (ENVN)
4:30 p.m., May 27 (Wed)

Dustin Mergot (HEALTH)
4:30 p.m., May 28 (Thu)

Focus Areas:
Food, Health, Environment

Plan to attend and/or be a part of the program

Contribute ideas for sessions!
Offer to organize a symposium!



jglcrm2015.com

Conferences, Classrooms, Cafes and Collaborations: Outreach so Far in 2015

Gina Malczewski, Chair, Midland Section ACS

The Midland Section was represented again at Pittcon Science Week in New Orleans this year (March 6-12). Two teacher workshops (Sci Tech Next Generation, Parts 1 and 2) were facilitated on separate days, followed by three mornings of student hands-on activities. Teacher feedback was very positive. It is estimated that we reached over 400 students. Articles that mention our activities are available at <http://viewer.zmags.com/publication/f18e98b9#/f18e98b9/1>.

We organized and led a first of its kind event on 3/14/15 – we celebrated **SCI PI Day** with two hours of festivities at SVSU, assisted by the SVSU Chemistry Club. About 20 students (mostly grades 5 to 8) and some parents participated in a math session (working with Pi) and in hands-on activities with light (in honor of Albert Einstein, whose birthday is March 14). In between, there was a break with – what else – pies! This opportunity comes along only once a century and was enjoyed by all. Also on March 14, the Midland Section ACS supported some science and engineering hands-on activities during the **NOBCChE Science Bowl** outside of the SVSU Ott Auditorium.

We had a successful science cafe on Cosmetic Chemistry (featuring Jason Vogel of Dow Corning) on January 10 at MCFTA (again, great feedback from attendees), and participated in Midland's "Kids Day at the Mall" event on January 17 where our gum-making activity was very popular. We also focused on "chemistry that tastes good" during three days of after-school science at Jefferson Middle School, Northeast Intermediate and the Midland Community Center in early February. Featured items were popcorn, cotton candy, marshmallows and bubble gum.

Our "Science Day" activities for six gifted classes at Kolb Elementary (Bay City) were postponed February 19 due to school closure, but we are hoping to reschedule. "Carnival Science" was presented to several classes at the end of February for "SPARK Day" (Science Plus Art Reaching Kids) at Hemmeter School in Saginaw. Dave Stickles once again led our effort to participate in "Education Day with the Saginaw Spirit" on March 3.

We are spending two days at Midland High School in April doing Alka Seltzer reactions, and offering polymer hands-on demos at St. Thomas Aquinas in Saginaw on April 24. A Food Science Cafe is planned for May 7, with a location targeted for Bay City but not yet confirmed, so stand by for further announcements! As always, questions or an interest in volunteering can be directed to reginamalczewski@gmail.com or to Michelle Rivard at mlqshadow@yahoo.com.

Councilor's Report, 249th ACS National Meeting, Denver

Tina Leaym, Councilor, Midland Section ACS

Tina Leaym and Dale LeCaptain, Councilors for the Midland Section, attended the ACS District II Councilor's Caucus meeting and the National ACS Council meeting in Denver. The information provided below is high level. If any Midland Section member is interested in more detail, please contact one of your Councilors (tina.leaym@dowcorning.com or dale.lecaptain@cmich.edu).

- The nominees for 2016 President-Elect of the American Chemical Society were narrowed from four candidates to two by vote of the Council. The candidates are:
 - G. Bryan Balazs, California Section, Lawrence Livermore National Laboratory
 - Allison A. Campbell, Richland Section, Pacific Northwest National Laboratory

- New international chapters in Taiwan and India were approved by the Council.
- Fully escalated dues were approved. Dues will increase from \$158 in 2015 to \$162 in 2016 based on the 2.49% increase in the Consumer Price Index, Urban Wage Earners, Services Category.
- National Meeting Registration Fee Increases: There was discussion around the ACS Board of Directors' (BOD) goal to achieve "break-even" financial results at National Meetings for the technical programming. Increasing technology costs have outpaced increases in meeting registration fees, resulting in significant shortfalls. An annual incremental adjustment to the registration fee of \$15 will allow the Technical Program to break even around 2020. This can be implemented without Council approval, but a motion was made and approved for more data to be provided to Council at the Boston meeting in the fall. A couple of interesting discussion points were brought up by council members:
 - While the meeting expo was once viewed as a source of income to balance shortfalls in the technical programming, the trend is that fewer and fewer vendors see value in participating in the expo.
 - Why do we not have the option of attending the National meetings virtually? Making the programming available on-line could be a way to increase revenues.
- Bylaw Updates Under Consideration:
 - Petition on Member Expulsion (Bylaw I, Sec. 5)
 - The purpose is to streamline the Bylaws. Procedures for expulsion are largely removed from the Bylaws and would be promulgated by the Council Committee on Membership Affairs. Such procedures shall provide for quick resolution, fairness, confidentiality, and due process, including an opportunity for charged members to be heard.
 - Petition on Preferential Voting (Bylaw V, Sec. 2, d, Sec. 3, c, Sec. 4, d and f)
 - When there are more than two candidates, this update extends the present preferential ballot system to the Directors-at-Large election. Details of the voting process would be moved from the Bylaws to procedures developed by the Committee on Nominations and Elections.

These Bylaw changes are under consideration. ACS members can contact bylaws@acs.org with questions or concerns. The deadline for written comments is April 24, 2015.

ACS National Awards for 2015–2016 Nomination
Diana Deese, Awards Committee Chair, Midland Section ACS

Editor's note: Several Midland Section ACS members have received various National ACS awards over the years. Please see their names, as noted, below.

[ACS Award for Achievement in Research for the Teaching and Learning of Chemistry](#)

[ACS Award for Affordable Green Chemistry](#)

2012 William J. Kruper

[ACS Award for Computers in Chemical and Pharmaceutical Research](#)

[ACS Award for Creative Advances in Environmental Science and Technology](#)

1986 Eugene E. Kenaga

[ACS Award for Creative Invention](#)

1984 Edwin P. Plueddemann

[ACS Award for Creative Research and Applications of Iodine Chemistry](#)

[ACS Award for Creative Work in Fluorine Chemistry](#)

[ACS Award for Creative Work in Synthetic Organic Chemistry](#)

[ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry](#)

[ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences](#)

[ACS Award for Encouraging Women into Careers in the Chemical Sciences](#)

[ACS Award for Research at an Undergraduate Institution](#)

[ACS Award for Team Innovation](#)

[ACS Award in Analytical Chemistry](#)

[ACS Award in Applied Polymer Science](#)

1970 Raymond F. Boyer

[ACS Award in Chromatography](#)

1991 Hamish Small

[ACS Award in Colloid and Surface Chemistry](#)

[ACS Award in Industrial Chemistry](#)

[ACS Award in Inorganic Chemistry](#)

[ACS Award in Organometallic Chemistry](#)

[ACS Award in Polymer Chemistry](#)

1973 Turner Alfrey, Jr.

[ACS Award in Pure Chemistry](#)

[ACS Award in Separations Science and Technology](#)

[ACS Award in the Chemistry of Materials](#)

[ACS Award in Theoretical Chemistry](#)

[Award for Volunteer Service to the American Chemical Society](#)

[Roger Adams Award in Organic Chemistry](#)

[Alfred Bader Award in Bioinorganic or Bioorganic Chemistry](#)

[Earle B. Barnes Award for Leadership in Chemical Research Management](#)

1987 Malcolm E. Pruitt

2009 Gregg A. Zank

2014 William F. Banholzer

[Ronald Breslow Award for Achievement in Biomimetic Chemistry](#)

[Herbert C. Brown Award for Creative Research in Synthetic Methods](#)

[James Bryant Conant Award in High School Chemistry Teaching](#)

[Arthur C. Cope Award](#)

[Arthur C. Cope Scholar Awards](#)

[Elias J. Corey Award for Outstanding Original Contribution in Organic Synthesis by a Young Investigator](#)

[F. Albert Cotton Award in Synthetic Inorganic Chemistry](#)

[Peter Debye Award in Physical Chemistry](#)

[Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry](#)

[Francis P. Garvan - John M. Olin Medal](#)

[James T. Grady - James H. Stack Award for Interpreting Chemistry for the Public](#)

[Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator](#)

[Ernest Guenther Award in the Chemistry of Natural Products](#)

[Kathryn C. Hach Award for Entrepreneurial Success](#)

[E. B. Hershberg Award for Important Discoveries in Medicinally Active Substances](#)

[Joel Henry Hildebrand Award in the Theoretical and Experimental Chemistry of Liquids](#)

[Frederic Stanley Kipping Award in Silicon Chemistry](#)

1990 John L. Speier, Jr.

[E. V. Murphree Award in Industrial and Engineering Chemistry](#)

[Nakanishi Prize](#)

[Nobel Laureate Signature Award for Graduate Education in Chemistry](#)

[James Flack Norris Award in Physical Organic Chemistry](#)

[George A. Olah Award in Hydrocarbon or Petroleum Chemistry](#)

[Charles Lathrop Parsons Award](#)

[George C. Pimentel Award in Chemical Education](#)

[Priestley Medal](#)

[Glenn T. Seaborg Award for Nuclear Chemistry](#)

[Gabor A. Somorjai Award for Creative Research in Catalysis](#)

[George and Christine Sosnovsky Award for Cancer Research](#)

[E. Bright Wilson Award in Spectroscopy](#)

[Ahmed Zewail Award in Ultrafast Science and Technology](#)

[Heroes of Chemistry](#)

1999 Etcyl Blair

1999 Ray Riggerink

1999 Art Sexton

2000 L.C. Rubens

Criteria and deadlines for the National ACS awards, and other grants and considerations, can be found at <http://www.acs.org/content/acs/en/funding-and-awards/awards/national/2015-national-awards-administered-by-ac.html>

In Past Issues of *The Midland Chemist*

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

50 Years Ago

In *A Neglected Obligation*, by J. E. Dunbar, Editor, *The Midland Chemist*: “Little effort has been made by the local section, however, to enhance the scientific careers of its chemist and chemical engineer members. There is perhaps a reason for this in that the local section looks to the two chemical companies in the area to satisfy this need. Although the local companies have been very cooperative in sponsoring lectures from various universities and colleges and have in the past sponsored courses in infrared spectroscopy, the responsibility of learning new techniques falls upon the individual scientist and, collectively, upon the Midland Section of the American Chemical Society.”

40 Years Ago

In *The Chairman's Column*, by Alvin E. Bey: “Standing room only at an ACS lecture — Hard to believe, isn't it? But that was indeed the situation at our Midland Section March 17 program held in the Dow 566 building auditorium. Our featured speaker Dr. T. D. Coyle, speaking on “Chemistry and Flame Retardancy” provided a unique combination of general appeal information blended with some new insights into the chemical nature of burning.

In addition, the Midland Section was granted the 1974 ACS “Outstanding Performance Award” for medium-large sections (i.e., 500-1000 members) at the meeting. Dr. Patricia Figueras, a Regional ACS director from Eastman Kodak Company, was on hand to make the presentation. Dr. Donald R. Petersen received the Award

for the Section. Dr. Petersen was the Midland Section Chairman during 1973 for which the award was earned. This was a real tribute to Dr. Petersen and the many ACS members who worked diligently to make it a banner year.”

30 Years Ago

In *SVSC Science Club Starts Endowment*: “Officers of the Saginaw Valley State College Science Club, Lee Morgan and Adam Metropoulos, recently presented a \$300.00 check to Jack M. Ryder, President of Saginaw Valley State College, for the newly established Biology/Chemistry Endowed Scholarship Program at SVSC. Morgan, a senior business and chemistry major, served as president of the Science Club during the 1983-84 year. Metropoulos, a senior chemistry major, is the current secretary of the club.”

20 Years Ago

In *Tech Talk, News and Views of the Mid-Michigan Technician Group* by Janel Davidson: “Well, the brainstorming is over and we have a multitude of activities coming your way for 1995. The top picks for the program this year (headed up by Jamie Dunham (1995 Chair-elect), who is the Program Chair and Kerry Pacholke, the Program Co-chair) include a presentation skills workshop, an introduction to the Internet, a poster/paper presentation workshop, and another successful technician’s panel discussion similar to the one held last year.”

10 Years Ago

In the *Chair Column, ACS President Visits Midland Section*, by Pat Smith, Chair, ACS Midland Section: “The highlight of March was the visit of ACS president, Dr. William F. Carroll. Bill had a whirlwind tour of the area, visiting Dow, Dow Corning, MMI, CMU, and the Tribal School in Mt. Pleasant. He spent time with several corporate and university leaders, students, and faculty. He also gave an evening presentation at the Ashman Court Conference Center entitled “ACS Agenda 2005: An Invitation to Dialogue,” in which Bill described his priorities for ACS. Look for the presentation on the Midland Section web site (<http://membership.acs.org/m/midl/>).”

Upcoming Dates, Events, and Other Updates

- April 11 (10:00 AM – 2:00 PM) – Earth Day Expo, MCFTA Lobby. Many exhibits and activities for all ages.
- April 18 (10:00 AM) – *Global Worming: Vermiculture and More*, SVSU Greenhouse and Science East Room 117. Appropriate for ages 14 +.
- April 18 (1:30 – 3:00 PM) – Girl Scout Energy Expert badge activity, Creative 360, 1517 Bayliss Street, Midland. Appropriate for grades 4-9.
- April 23 – **Deadline to RSVP for the Midland Section ACS Spring Awards Recognition Dinner.** \$14.00 per person for a plated chicken dinner, dessert, and beverage. To RSVP, please contact Diana Deese, Awards Committee Chair, at dkdeese@dow.com or 989-636-9915.
- April 25 (10:00 AM – 2:00 PM) – Boy Scouts Celebrate Earth Day, 5001 11 Mile Road, Auburn. Open to all and appropriate for all ages.
- April 30 (7:00 PM) – *Gyres of Junk: Garbage in Our Lakes and Oceans*, presentation by Sarah Lowe of NOAA, Bay City Western High School Auditorium. Appropriate for ages 14 +.
- May 4 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.

- May 6 (5:45 – 9:00 PM) – Midland Section ACS Spring Awards Recognition Dinner, Great Hall and 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 14 (Save the date) – 12th Annual ChEMS Research Forum, Huntington Club at Spartan Stadium on the campus of Michigan State University, East Lansing. For more information, please see <http://www.chems.msu.edu/forum2015>.
- May 27–30 – ACS Joint Great Lakes Central Regional Meeting, Grand Rapids, MI. For more information, see <http://jglcrm2015.com/>.
- June 1 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- August 3 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- August 16–20 – 250th ACS National Meeting & Exposition, Boston, MA. For more information, see <http://www.acs.org/content/acs/en/meetings/fall-2015.html>.
- August 31 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.

The Midland Chemist is published twelve times a year by the Midland Section of the American Chemical Society, P.O. Box 2695, Midland, MI 48641-2695, <http://www.midlandacs.org>.

Volunteer Staff

Vickie Langer	Editor (vlanger@dow.com)
Steve Keinath	Editor (skeinath54@charter.net)
Satyajit Sarkar, Greg Cushing	Webmaster, electronic distribution
Position open	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 2015 Midland Section of the American Chemical Society

The Midland Chemist is now primarily available online with publication notification by e-mail. If you are currently receiving *The Midland Chemist* as a hardcopy, this means that we do not have an e-mail address for you. If you do have e-mail and would prefer to get the publication electronically, please notify the editor at newseditor@midlandacs.org. However, if you do not have e-mail, we are happy to provide the publication as hardcopy. If you have any questions about events and only electronic communication information is listed, feel free to contact the Midland Section Chair, Gina Malczewski, at 989-631-4038.