

# THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

January 2015, Vol. 52, No. 1

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## Chair Column

*Gina Malczewski, Chair, Midland Section ACS*



**Resolutions and Evolutions.** We're off and running, 2015 has begun and the Midland Section ACS, like our membership, is looking inward and making plans. Change is not always necessary, but review is valuable.

Most of our committees have chairs, but we are still seeking assistance in some areas (especially Membership), and welcome all who wish to contribute. Speaking of members, we have a diverse group, and we would like to understand how to better engage and assist each demographic – young, mid-career and experienced/retired. If you have an opinion, voice it! If you have heard or had conversations with those who either value or reject ACS membership, considering sharing those comments with us. We need to learn how to increase the value of our activities and sustain our successes.

And belonging to the ACS is only part of the story. Just 124 of about 650 Midland Section members voted in our last election. WHY? If the ACS does not offer members what you think it should, consider becoming more

involved and help to making it "work better." Input, ideas, and VOLUNTEERS are required for growth, relevance and accomplishment.

A few priorities for this year include:

- Soliciting, encouraging and training future and current leaders
- Connecting with area STEM initiatives and determining how and when to contribute
- Revising the website (see related article, page 16) and the handbook
- Beginning preparations for our 100th section and 50th regional anniversaries in 2019

Let's resolve to have a productive and enjoyable year. You are welcome to contact me with any suggestions or concerns at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com).

### **Michelle Rivard Is New Chair-Elect; Kevin Wier Steps up as Director**

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

As you may recall, we had no candidates running for Chair-elect in the last election. This is indicative of a longer-term succession issue that we hope to address this year. Thankfully, however, Michelle Rivard accepted a nomination to serve as Chair-elect in 2015, and was approved by the Midland Section Board on January 5. Michelle will run for the Chair position in 2016 in the upcoming fall election to allow the local section members at large a voice in choosing their section's leadership. The Chair-elect position is usually the first year of a three-year commitment.

Michelle's new position vacated a Director spot that she had just won in the 2014 election, so Kevin Wier (next in line for a Director position based on vote count) was nominated. He accepted, and will serve as a partial term Director until the election in the fall, when he will run against other candidates who may seek the rest of that three-year Director term.

We are fortunate to have added these two highly qualified individuals to our Board and to have filled all of our current leadership roles. Please welcome them and provide your support.

### **SMART (Science Meets Art) Program – February 2, 9, and 16**

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

The Midland Section ACS Outreach group is working with Creative 360 to offer seniors (and others) some experiences that combine science concepts with art activities. We encourage you to consider attending. Space limitations restrict the program to no more 30 participants, so REGISTER EARLY!

Join scientists from the American Chemical Society (ACS) and artists from Creative 360 for hands on science and art experiences. Creative 360 and the ACS have joined together for the past two years to bring this unique program to Delta College's Possible Dream program. The engaged excitement and enthusiasm of participants and presenters has inspired us to offer it to participants age 60+. Join us for some interactive "wow – that's amazing!" experiments.

The SMART program will run on three consecutive Monday's, February 2, 9, and 16, 1:00-3:00 PM. There is no charge to participate in the program, however, pre-registration is required by January 28. For more information, see <http://www.becreative360.org/events/yes-can-science-meets-art-2015-02-02/>.

## **Outreach Beach Party – January 29**

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

Tired of winter? Grab your Hawaiian shirt or come as you are! We will meet to discuss Outreach activities on Thursday, January 29 at 5:30 PM at Gina Malczewski's house (4210 Linden Drive, Midland). We will grill hamburgers and hot dogs and make some plans for 2015. Come find out what's new, what's involved, and how you can help. We have something for everyone who wants to bring science to the masses and have fun doing it! Contact Gina if you need directions (do not rely on GPS). An RSVP would be appreciated to [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com).

## **National ACS Recognition for SVSU and CMU Student Chapters**

***Dale LeCaptain, Councilor, Midland Section ACS, and Faculty Advisor, CMU Student Chapter***

SVSU and CMU student members are headed to Denver, with research results to present, talks to see and hear, expos to explore, and awards to collect. That's right, both student chapters have earned National ACS recognition once again for their programs and activities in the 2013-14 school year.

- SVSU – Outstanding Student Chapter Award
- CMU – Commendable Student Chapter Award

Congratulations to all of their members for doing so much for their communities and universities. From science demos at elementary schools, tutoring services, trips to chemical facilities, or just hanging out to strengthen their networks. Both groups are sending representatives to Denver for the ACS National meeting and to that end, are asking for Midland Section membership support. For more information, contact Dale LeCaptain at [lecap1dj@cmich.edu](mailto:lecap1dj@cmich.edu).

## **ACS Student Members Host Frozen-Themed Fundraiser – January 31**

***Dale LeCaptain, Faculty Advisor, CMU Student Chapter***

American Chemical Society (ACS) student members from SVSU and CMU are hosting a fundraiser / lunch social from noon to 5:00 PM at the Midland Brewing Company (5011 North Saginaw Road, Midland), on Saturday, January 31.

This event is designed for ALL ages and features a *FROZEN* movie theme—great for kids! Come enjoy science demos, games, crafts, and college students dressed as Disney characters! The students will go head to head ... or more technically, princess to princess in a *Who is the best Elsa and Anna* contest. Come and check out their creativity and vote for the best princess (should be photo worthy). There may even be some liquid nitrogen ice cream for dessert!

The Midland Brewing Company is great for adults to enjoy, too, with craft brews and student-served lunch. Lunch is FREE, so you can help the college kids raise money for travel to the ACS National Meeting in Denver, Colorado. Both of the SVSU and CMU student groups will receive awards at the national meeting! For more information, please contact Dale LeCaptain at [lecap1dj@cmich.edu](mailto:lecap1dj@cmich.edu).

# American Chemical Society

student members ..... want to know



Saturday afternoon lunch social!

Noon – 5:00 PM

Saturday, January 31<sup>st</sup>

Midland Brewing Company

5011 N. Saginaw Rd., Midland



**Special guests  
Anna & Elsa !**  
photo opportunities  
vote for best costume

**SAGINAW VALLEY  
STATE UNIVERSITY** vs. **CMU**  
CENTRAL MICHIGAN  
UNIVERSITY



## It's a party for:

Moose, snowmen, princesses,  
evil brothers, **EVERYONE!** (adult & kid friendly)

## Join us anytime in the afternoon to:

- ❄️ Enjoy a "Free" lunch
- ❄️ Help college kids raise \$\$ for Denver  
(ACS national meeting travel expenses)
- ❄️ Watch a movie
- ❄️ Consume beverages
- ❄️ Play some games
- ❄️ **HAVE FUN!**



Questions: [dale.lecaptain@cmich.edu](mailto:dale.lecaptain@cmich.edu)

## **Call for ACS Fellow Nominations**

***Michelle Cummings, Past Chair, Midland Section ACS***

The Midland Section ACS leadership is requesting nominations for the 2015 class of American Chemical Society (ACS) Fellows. The ACS Fellows Program was created by the ACS Board of Directors in December of 2008 to recognize members of ACS for outstanding achievements in, and contributions to, science, the profession, and the Society.

ACS Fellows must be current members in good standing with the Society and have documented excellence and leadership in both science and volunteer service in the ACS community. Scientific experience may include technical, educational, professional, and/or managerial impact that has a lasting benefit on one of the chemical sciences. Volunteer service in the ACS community includes any action/position that resulted in significant enhancements to the ACS, its products, or services.

Fellows are selected by a broadly representative selection committee appointed by the Board Committee on Grants & Awards, which has governance oversight for the program.

Nominations may be submitted individually through a self-nomination process, or by technical divisions, local sections, or national committees. The Midland Section is limited to two ACS Fellow nominations, so please contact any Midland Section Board member if you would like to nominate yourself or a colleague for this prestigious award by February 1, 2015.

Additional information regarding this award, eligibility, and nominations can be found at the following link:  
<http://www.acs.org/content/acs/en/funding-and-awards/fellows.html>.

## **It's Broomball Time – February 13**

***Dale LeCaptain, Councilor, Midland Section ACS***

Get your game on, form a team, and come on out because it's broomball time, again! Back by popular demand, the 2<sup>nd</sup> annual Midland Section ACS broomball tournament is coming up. Bring your neighbor from the next door cubicle or office, grab the engineer down the hall, and sign up your team for a Midland Section sponsored broomball battle. Think broom, ball, ice hockey rink, 2 goals, and 10 people trying to run on ice. And, don't forget the hilarious moments of wipe-outs, spills, and phenomenal saves, too.

Date, time & place: Friday, February 13, 6:30-8:30 PM, Midland Civic Arena, 405 Fast Ice Drive, Midland

Form your own team today! You'll need at least 6 people (age 15 and up), 8 would be better, and 11 would be awesome. You must be willing to try to run on ice while swinging a broom at the ball. \$25 team entry fee with lots of door prizes and a networking social to follow.

Send your team name and make payment arrangements with John McKeen at [jcmcke@dow.com](mailto:jcmcke@dow.com). Helmets are required, and the Midland Civic Arena has plenty on hand to loan if you need one. Want to play, but can't get a team together? Send an e-mail to John, and he'll get you on a team! For more information, contact Dale LeCaptain at [lecap1dj@cmich.edu](mailto:lecap1dj@cmich.edu), or John McKeen at [jcmcke@dow.com](mailto:jcmcke@dow.com).

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

**Bruce Holden, Secretary, 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 MMAIChE website at <http://www.mmaiche.org> 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 on the MMAIChE website. Just click on "Program Flyer" near the top of the MMAIChE Events page at <http://www.mmaiche.org/events.html>. You may also contact Bruce Holden at [bsholden@dow.com](mailto:bsholden@dow.com) or 989-636-5225 for more information.

- **Margie Pierce**, Owner, Sourcing Engineers, Inc.  
*Entrepreneurship in Engineering*  
Wednesday, February 18, 2015, 6:00 PM dinner (optional), 7:00 PM presentation
- **Aaron Johnson**, Global Application Development Leader, Dow Water & Process Solutions  
*Potential and Controversies of Fracking*  
Wednesday, March 11, 2015, 6:00 PM dinner (optional), 7:00 PM presentation
- **Joe VanderKelen**, President, SMI Snow Makers  
*SMI Snow Makers and the Sochi 2014 Olympics*  
Tuesday, April 7, 2015, 6:00 PM dinner (optional), 7:00 PM presentation

## Chemistry on the Silver Screen – February 24

**Wendy Flory, Treasurer, Midland Section ACS**

Save the date: Tuesday, February 24, 2015, for the next *ACS-Program-in-a-Box* event on the topic of chemistry in the movies.

Science is finding a bigger place on the silver screen and in our living rooms. But what's behind this new attraction and how is Hollywood influencing the public's view? Tune in for a discussion on how Hollywood is working to incorporate science, and meet the people that are making it happen. For more information, contact Wendy Flory at [wcflyor@dow.com](mailto:wcflyor@dow.com).



## **Announcing the 2015 Spring Awards Banquet and Call for Nominations**

***Diana Deese, Awards Committee Chair, Midland Section ACS***

It is that time of year again when we have the opportunity to recognize outstanding educators, volunteers and colleagues. I am asking that you take the time to nominate that outstanding person to be recognized at the American Chemical Society–Midland Section Spring Awards Banquet at the Great Hall and Convention Center in Midland on Wednesday, May 6, 2015. The awards banquet is a great way to connect with others in the industry, those who have gone before us, those who teach the next generation, and those who will be following in our footsteps.

The process of nominating can be fun and easy. Consider getting your colleagues together for lunch and putting together a packet. If you are in a managerial role and are worried about favoritism, consider nominating 2–3 qualified persons (you will remain anonymous). If you feel you deserve an award but everyone is just too busy to notice, consider leaving suggestions or have an outright discussion with your manager. If you are a parent: Does your child have a great science teacher? If so, consider nominating him/her.

From personal experience, if you know the deserving person, it only takes one hour to put together an award-winning letter, and an additional 15 minutes soliciting supporting letters. Think of what it will mean to that person and how good you will feel about your good deed. I have listed previous award recipients and would like to remedy that nasty “No Recipient” comment, as there is surely someone deserving in every category!

When you realize how exciting it is to nominate someone at the local level and you want to do more, I invite you to peruse the veritable cornucopia of awards the American Chemical Society offers at the national level. I have listed them below (see page 13), each linked to the corresponding Web address where you can find out more information. Now is the time to begin nominations for National ACS awards for 2015–2016 as most annual award nominations have a deadline of November 1.

Nomination packets for all awards (except outstanding high school and collegiate awards) must, at a minimum, consist of a current resume or equivalent, and at least one supporting letter in addition to your letter of nomination, all stating why the nominee is deserving of the award with specific examples of professional involvement/growth, contributions to industry, and outside affiliations.

It is highly recommended that the nomination include a publications and patent list, where applicable, and additional letters of support which can come from students, parents, community members, and/or administrators. An example nomination letter can be requested from the awards chair via e-mail. Nominations not meeting the minimum requirements, and submissions received after the April 7, 2015 deadline, will not be considered.

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

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

## **Call for Nominations: 2015 Teaching, Volunteer, Education, Chemical Sciences Awards**

***Diana Deese, Awards Committee Chair, Midland Section ACS***

Each year, the Midland Section of the American Chemical Society presents awards to recognize outstanding achievement in the chemical sciences. Nominations for the 2015 awards are invited for the following areas:

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

### ***Outstanding Science/Chemistry Teaching Awards***

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

### ***Science Education Volunteer of the Year***

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

### ***Outstanding Achievement and Promotion of the Chemical Sciences***

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

### ***Outstanding Service to the American Chemical Society***

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

### ***Outstanding Chemical Technician***

The Section presents an annual Outstanding Chemical Technician award to an individual who has demonstrated an extremely high degree of professionalism as a chemical technician. Nominees must have worked for five years as a chemical technician, or in a related field, and whose primary job includes conducting experimentation or correlating information to help solve chemical problems or discover new chemical knowledge. The nominee must have successfully completed a two-year post-high school level chemistry curriculum leading to an associate degree, the equivalent course in a baccalaureate program, or equivalent experience. ACS membership is not required for chemical technicians to be eligible for this award. Nominations should include outside affiliations. *Request the National ACS nomination form from the awards chair to nominate in this category.*



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

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

The deadline for nominations is April 7, 2015. Nominations not meeting the minimum requirements, and submissions received after the April 7 deadline, will not be considered. Mail or fax submissions are acceptable; *electronic (e-mail) submissions are preferred*. All submissions must be accompanied by the name, position, address and phone number of the nominator.

### ***Outstanding Chemistry Students***

The Awards Committee also recognizes outstanding chemistry students at the high school and collegiate levels. Those students should be selected by their respective departments, and their names forwarded to the Awards Committee using the form attached to this call for nominations (see page 10). One selection per school; no supporting letters needed.

Award recipients, as well as Chemistry Olympiad winners and Fifty/Sixty/Seventy Year ACS Members, will be honored at the 2015 ACS Spring Recognition Dinner at the Great Hall and Convention Center, in Midland, on Wednesday, May 6, 2015.

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

For example nominations or more detail on any award, please contact Diana Deese.

*Electronic submissions are acceptable and preferred*, or via U.S. mail to:

Diana K. Deese, Chair  
ACS Midland Section Awards Committee  
Phone: (989) 636-9915  
E-mail: [awards@midlandacs.org](mailto:awards@midlandacs.org) or [dkdeese@dow.com](mailto:dkdeese@dow.com)



**American Chemical Society – Midland Section**

**Nomination Form for 2015 Outstanding High School / Collegiate Chemistry Student  
ACS Midland Section**

Dept. Chair or other Nominator: \_\_\_\_\_

Telephone number: \_\_\_\_\_

E-mail address (required): \_\_\_\_\_

School: \_\_\_\_\_

\*\*\*\*\*

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

Home address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

E-mail address (required): \_\_\_\_\_

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please return this form to the following address no later than **April 7, 2015**:

Diana K. Deese

ACS Awards Committee Chair, Midland Section

Phone: (989) 636-9915

E-mail: [dkdeese@dow.com](mailto:dkdeese@dow.com)

## Previous Recipients of Midland Section ACS Awards

*Diana Deese, Awards Committee Chair, Midland Section ACS*

### Elementary Level Science Education

1992	Karen Ziemelis
1993	Lela Wade
1994	Constance A. Dullock
1995	Joan Kloplic
1996	Mark Hackbarth
1997	Denise Koppleberger, Cheryl Ruthig
1998	Barbara McGivern
1999	John Clark
2000	Sue Burtch, Robin Harshman-Rogers, Vicki Richard, Clare Jorgensen
2001	Cathy Egerer, Amy Hindbaugh-Marr
2002	Maureen Becker
2003	Leon Katzinger
2004	Joan Roels
2005	Curt Moses
2006	Robin Allen
2007	Diane Huckins
2008	Rachel Pappas
2009	No Recipient
2010	No Recipient
2011	Beth Quimby
2012	No Recipient
2013	No Recipient
2014	No Recipient

### Middle Level Science Education

1992	Derrell Steffen
1993	Laurie Hepinstall
1994	JoAnn Kraut
1995	No Recipient
1996	Barbara J. Bibbee
1997	Gary J. Johnson
1998	No Recipient
1999	No Recipient
2000	No Recipient
2001	No Recipient
2002	Joel Mikusko
2003	No Recipient
2004	Christine Brillhart
2005	No Recipient
2006	Matthew Miller
2007	John Hoving
2008	Mark Koschmann
2009	Carla Piazza
2010	Melinda Coyle
2011	Jennifer Lenon
2012	Jayne Swanson
2013	John Barnes
2014	No Recipient

### High School Chemistry Teaching

1989	Robert Wallace
1990	Gary Ronk
1991	No Recipient
1992	John Clark, Edna Konwinski
1993	Mary Irons
1994	Jo Ann Pelkki
1995	No Recipient
1996	Sandra Schafer
1997	Mary Fredell
1998	Dale Ressler
1999	Robert Enszer
2000	Steven Kelly
2001	William Stokes
2002	Robert Hansen
2003	No Recipient
2004	Doug Grezeszak
2005	Pamela Thompson
2006	Daniel Sealy
2007	No Recipient
2008	No Recipient
2009	Nancy Vossen
2010	Sandra Schafer
2011	David Allan
2012	David Bruessow
2013	Tom Short / Sarah Beery
2014	No Recipient

### College Chemistry Teaching

1989	Joan Sabourin
1990	Bob Howell
1991	Robert Kohrman
1992	Scott Hill
1993	Ajit Sharma
1994	Laura Vosejпка
1995	George Eastland
1996	Martin Spartz
1997	Philip Squattrito
1998	Thomas Delia
1999	Steven Keinath
2000	James Hutchison
2001	Sandra Smith
2002	Margaret Hill
2003	Dale Meier
2004	Katherine Blystone
2005	Ronald Sharp
2006	Arthur G. Smith
2007	Cynthia N. Peck
2008	No Recipient
2009	No Recipient
2010	Anton Jenson
2011	No Recipient
2012	David S. Karpovich

2013	No Recipient
2014	Dr. David Baker

### Science Education Volunteer

1992	Gregg Young	2007	Teri Bickmore
1993	Peter Bonk		Cal Goeders
1994	Peter Moehs	2008	Tim Drier
1995	Gretchen Kohl	2009	Dave Stickle
1996	John Blizzard	2010	Lisa Thackery
	Richard Van Effen	2011	Charles & Barbara Roth
1999	William Albe		
2000	Karol Childs		
2001	Donald Petersen		
2002	Joan McMahan		
2003	John Blizzard		
2004	Jan Zanyk		

1997	Marvin Tegen	2005	Eldon Graham	2012	Estelle Lebeau
1998	Carlton Beyer	2006	Tom Chamberlin	2013	No Recipient
				2014	Charles Nielsen

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

(Awarded every other year)

2002	George Gant, Richard Stringfield	2008	Sandra Parker	2014	Victor Atiemo-Obeng
2004	Smallwood Holoman, Jr.	2010	Theophilus Leapheart		
2006	Joan Sabourin	2012	Linneaus Dorman		

### **Outstanding Chemical Technician**

1997	Connie J. Murphy	2004	Sherry Allen	2011	Amy Tesolin-Gee
1998	David Stickles	2005	Bill Rievert	2012	Amber Wallace
1999	Ronald L. Good	2006	Margo McIvor	2013	No Recipient
2000	Kurt A. Bell	2007	Debbie Bailey	2014	Jeff Seifferly
2001	Gordon R. Roof	2008	Sue Perz		
2002	Cynthia J. Gould	2009	Diana Deese		
2003	Robert Krystosek	2010	No Recipient		

### **Outstanding Achievement and Promotion of the Chemical Sciences**

1976	Dr. Turner Alfrey, Jr.	1990	Dr. Joseph E. Dunbar	2004	Herbert D. (Ted) Doan
1977	Dr. Etcyl H. Blair	1991	Dr. Thomas H. Lane	2005	Dr. Michael J. Owen
1978	Dr. David C. Young	1992	Dr. Donald A. Tomalia	2006	Dr. Robert E. Kohrman
1979	Dr. Vernon A. Stenger	1993	Dr. Dale J. Meier	2007	Dr. Petar R. Dvornic
1980	Dr. Daniel R. Stull	1994	Dr. Philip T. Delassus	2008	Dr. Jack Kruper
1981	Dr. Bob A. Howell	1995	Dr. Duane B. Priddy	2009	No Recipient
1982	Dr. Wendell L. Dilling	1996	Dr. Hans G. Elias	2010	No Recipient
1983	Dr. Donald R. Weyenberg	1997	Dr. Ludo K. Frevel	2011	Dr. James Falender
1984	Dr. Edwin P. Plueddemann	1998	Dr. Patrick B. Smith	2012	No Recipient
1985	Dr. Raymond P. Boyer	1999	Dr. David E. Henton	2013	No Recipient
1986	Stanley P. Klesney	2000	Dr. Steven J. Martin	2014	No Recipient
1987	Dr. Warren B. Crummett	2001	Dr. Edwin C. Steiner		
1988	Dr. A. Lee Smith	2002	Dr. Thomas J. Delia		
1989	Dr. Do Ik Lee	2003	Dr. Robert M. Nowak		

### **Outstanding Service to the American Chemical Society**

1989	Dr. David C. Young	2000	Dr. Peter & Dr. Patricia Dreyfuss	2011	No Recipient
1990	Dr. Linneaus C. Dorman	2001	Dr. George W. Eastland, Jr.	2012	No Recipient
1991	Dr. Donald R. Petersen	2002	Joan Sabourin	2013	No Recipient
1992	Dr. Wendell L. Dilling	2003	John Blizzard	2014	No Recipient
1993	Dr. Bob A. Howell	2004	Dr. Steven E. Keinath		
1994	Eldon L. Graham	2005	Ann Birch		
1995	Gretchen S. Kohl	2006	Dr. Philip Squattrito		
1996	Fran K. Voci	2007	David L. Stickles		
1997	Dr. Thomas H. Lane	2008	Connie Murphy		
1998	Vicky S. Cobb	2009	No Recipient		
1999	Dr. Theodore E. Tabor	2010	No Recipient		

## 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 Rigterink

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>

**National ACS Fellows from the Midland Section**

2010 Wendell L. Dilling

2010 Michael J. Owen

2011 Bob A. Howell

2011 Connie J. Murphy

2013 Patrick B. Smith

2014 Janet M. Smith

## **Dow Partners with ACS to Improve Chemistry Teaching Throughout North America**

*Jaime Curtis-Fisk, Dow STEM Program Leader*

The Dow Chemical Company (Dow) and the American Association of Chemistry Teachers (AACT) are partnering to invigorate chemistry education and support STEM (science, technology, engineering and math) education in the nation's schools.

Dow and AACT will work together to convene a series of teacher summits and create more than 750 lesson plans, multimedia resources, demonstrations and other high-quality chemistry teaching materials for use in K–12 classrooms. The work will be supported by a \$1 million contribution from Dow to AACT spread over a four year period.

AACT was launched in 2014 by the American Chemical Society (ACS), the world's largest scientific society. The partnership with Dow promotes the main goal of AACT—to provide its members with resources that foster top-notch chemistry instruction grounded in everyday life.

“We are thrilled to be working together with Dow to support teachers of chemistry across the country and develop the workforce of tomorrow,” said Madeleine Jacobs, ACS executive director and chief executive officer. “We hope that this partnership can serve as a model that will catalyze greater engagement between chemical industries and local communities.”

“A skilled STEM workforce fuels innovation and economic prosperity and creates solutions that improve the quality of life for people across the globe. At Dow, we value teachers' critical role, both in inspiring chemistry excitement and in helping students to gain the key skills they need to be successful in STEM careers,” said Andrew N. Liveris, Dow's chairman and chief executive officer. “As the founding partner of this program, we are proud to collaborate with ACS on this first of its kind community to empower chemistry teachers inside and outside of the classroom as they work to inspire the next generation of innovators and entrepreneurs.”

Dow's STEM mission is to build the workforce of tomorrow by supporting teachers, motivating student achievement, developing careers, and collaborating with communities to transform STEM education into a driver for innovation, manufacturing, and economic prosperity. Through its STEMtheGAP™ initiatives, including the AACT partnership, Dow strives to provide more resources to teachers, drive excitement in young people around STEM topics and increase the number of students who choose STEM majors, ultimately preparing these students to be successful in STEM careers.

“This new partnership comes at a critical time,” said Adam Boyd, AACT program director. “Enrollment in high school chemistry classes is on the rise. Yet, only 35 percent of high school chemistry teachers have both a bachelor's degree in chemistry and are actually certified to teach it.”

In order to prepare these teachers for the challenges they face in the chemistry classroom, Dow and AACT will host a series of teacher summits in cities around the country, with the first summit occurring this summer in Midland, Michigan. Approximately 30 chemistry teachers from surrounding communities will attend the weeklong summit. They will work with Dow volunteers, known as Dow STEM Ambassadors, to identify improvement opportunities in K–12 classroom resources and develop lesson plans, multimedia presentations and other materials that better meet teachers' needs. As part of this effort, Dow STEM Ambassadors will help teachers incorporate career-based examples into their teaching resources, educating students on future potential career opportunities.

Lesson plans and other classroom materials developed at the Dow-AACT teacher summits will be available to AACT members via the association's website, [www.teachchemistry.org](http://www.teachchemistry.org).

AACT is the first national organization of its kind in the United States. Membership in the new organization is open to all who are interested in chemistry education. AACT has three goals: to serve as a trusted source of curricular and pedagogical resources for K–12 chemistry instruction, to provide opportunities for chemistry teachers to network with each other and the broader ACS community, and to disseminate effective teaching and learning practices at the K–12 level. For more information, visit [www.teachchemistry.org](http://www.teachchemistry.org).

For further information at the national level, please contact Sara Steele at [smsteele@dow.com](mailto:smsteele@dow.com) or 202-429-3428, or Joan Coyle at [j\\_coyle@acs.org](mailto:j_coyle@acs.org) or 202-872-6229.

Editor's note: At the local level, Dow Chemical–Midland's Jaime Curtis-Fisk is the program manager for this new initiative. If you have any questions regarding this announcement or the program in general, or if you would like to connect a teacher with this opportunity, please contact Jaime at [jlcurtisfisk@dow.com](mailto:jlcurtisfisk@dow.com).

## Website Change Preview: Part 1

*Gina Malczewski, Chair, Midland Section ACS*

The Midland Section ACS website is undergoing renovation. No changes will be implemented (visible to visitors) without member input and Board approval, but we (the Technology Committee and Chair) are beginning to make changes in the background right now. Our goal is to launch the new and improved website in the spring. Revisions will affect content and layout. We encourage you to review the suggested changes outlined below and offer your input.

**Why the changes?** Much of the information on the current website has not been updated since 2009 or 2010, and some of it is obsolete. The Midland Section has also added new committees. We are also suggesting some layout changes that we hope will help visitors reach their target destinations more easily.

**What are the changes?** We highlight here the first two levels of modification. Additional information will follow later. The following table shows the suggested changes in the major tabs (across the top).

Current Old Tabs	Proposed New Tabs
Home	Home
About Us	About Us
Members	Committees and Groups
Education	For Teachers and Students
Community Outreach	Activities and Events
Communications	Communications
Administration	Administration/Members

We anticipate using cross-references under tabs as appropriate to redirect readers or offer related information. The order of listings is subject to change. Visible content or links suggested for first level pull-downs or visible content are outlined below.



## HOME

We will revise the verbiage provided so it is different from that under "About Us/Midland Section". We will highlight that we serve five counties wherever appropriate to make sure that this is clear to our audience.

- Link to current newsletter
- Brief upcoming current events information
- Appropriate Facebook content

The addition of Facebook content will be limited, and will be automatic for data that meets specified criteria. This will, of course, require that Facebook content is kept up-to-date, and it will save the time of loading new relevant content.

## ABOUT US

- Board and Committee Chairs (with photos)
- Section History
- Why I am a member (need to add testimonials from young members)
- Meetings / Minutes
- Join ACS

## COMMITTEES AND GROUPS

- Awards Committee
- Fall Scientific Meeting
- Kids and Chemistry / Outreach
- MidMichigan Technicians Group (MMTG)
- Minority Affairs (maybe a new name)
- Women Chemists Committee
- Younger Chemists Committee
- Finance Committee
- Technology Committee
- Program Committee
- Local Chemistry Clubs
  - \*SVSU
  - \*CMU
  - \*Alma College
  - \*Delta College

## FOR TEACHERS AND STUDENTS

- Chemistry Olympiad
- Project SEED
- Teacher Support
  - \*Science Coaching
  - \*Workshops
  - \*Other
- Travel Grants

## ACTIVITIES AND EVENTS

- Members Plus

Listed here are events designed for members, with significant scientific content. These are also open to interested members of the public.

- \*Programs

\*Turner Alfrey Visiting Professor Lecture Series

\*Fall Scientific Meeting

\*ACS Day at the Midland County Fair

- Community

Listed here are frequent, sometimes annual, events that are sponsored by Midland Section ACS alone or with partners. These are free and open to the public, and sometimes involve science demos or hands-on experiences.

\*Earth Day

\*Sci-Fest / National Chemistry Week

\*Kids' Day at the Midland Mall

\*ACS Day at the Midland County Fair

\*Science Cafes

- Students / Teachers (see separate tab)

## COMMUNICATIONS

- Current Events (see HOME and Google Calendar)
- Annual Reports (we will explain why recent years are not included)
- Newsletters
- News Clippings (we do not have a complete set but will offer what we have as examples)
- Meeting Minutes (see ABOUT US, or put them here)
- Blog (not sure if we will keep this)

## ADMINISTRATION/MEMBERS

- Change Your Member Profile
- Board and Committee materials
- Section By-laws
- Section Handbook
- Member Spotlight (thinking about this)
- Recognition
  - \*Education Awards
  - \*Section Awards
  - \*Volunteer Appreciation

Please submit any suggested changes or comments to the Midland Section ACS Chair, Gina Malczewski, at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com). Thank you for your time and interest in helping us develop a more useful and user-friendly website for our members and the general public at large.

## Delta College Seeks Full-Time Chemistry Instructor

### *Delta College Human Resources*

Delta College currently has an opening for a full-time chemistry instructor. The position is one-year renewable (division chair replacement). Required qualifications include:

- Master's degree in chemistry or closely related field from an accredited institution of higher education. Degree must be attained by August 1, 2015.
- Demonstrated currency in the field of chemistry.
- Minimum technology skills.

Teaching and industrial experiences will be considered. The position will remain open until filled. All application materials must be received before an applicant will be considered. For further details and qualification requirements, please see the web posting: <https://delta.peopleadmin.com/postings/1924>.

### **Antique Analytical Instrument—Free to Good Home**

***Theron Brayman, Member, Midland Section ACS***

Does anyone in the Midland Section of the ACS collect antique analytical instruments? I am a retired chemist, formerly with Dow Corning, and I have a Kletz Bio color comparator that I would like to give to any interested individual.

It was patented in 1928 and has a metal base, two tubes for sample and standard, a light source and viewing eyepieces whose positions can be adjusted—sort of a transitional method between Nessler tubes and a colorimeter.

We are downsizing prior to moving to a milder climate and I would like to give this to someone who collects such things. If I can't find anyone, it will have to go in the trash, unfortunately. If anyone is interested, please contact Theron Brayman at 989-750-6749.

### **Upcoming Dates, Events, and Other Updates**

- January 28 – Pre-registration deadline to participate in the SMART (Science Meets Art) program, a collaborative program involving scientists from the ACS and artists from Creative 360. For more information, see <http://www.becreative360.org/events/yes-can-science-meets-art-2015-02-02/>.
- January 29 (5:30 PM to ??) – Outreach Beach Party planning event, Gina Malczewski's house, 4210 Linden Drive, Midland. For more information and to RSVP, please contact Gina at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com).
- January 31 (12:00 – 5:00 PM) – ACS student chapter members' fundraiser / lunch social event, featuring the *FROZEN* movie theme and college students dressed as Disney characters, Midland Brewing Company, 5011 North Saginaw Road, Midland. For more information, please contact Dale LeCaptain at [lecap1dj@cmich.edu](mailto:lecap1dj@cmich.edu).
- February 1 – Deadline for ACS Fellow nominations. To submit a nomination, contact any Board member. Additional information regarding this award, eligibility, and nominations can be found at the following link: <http://www.acs.org/content/acs/en/funding-and-awards/fellows.html>.
- February 2 (1:00 – 3:00 PM) – SMART (Science Meets Art) program, Creative 360, 1517 Bayliss Street, Midland. Free program, but pre-registration is required. For more information, please see <http://www.becreative360.org/events/yes-can-science-meets-art-2015-02-02/>.
- February 2 (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#.
- February 9 (1:00 – 3:00 PM) – SMART (Science Meets Art) program, Creative 360, 1517 Bayliss Street, Midland. Free program, but pre-registration is required. For more information, please see <http://www.becreative360.org/events/yes-can-science-meets-art-2015-02-02/>.
- February 13 (6:30 – 8:30 PM) – 2<sup>nd</sup> annual Midland Section ACS broomball tournament, Midland Civic Arena, 405 Fast Ice Drive, Midland. For more information, please contact Dale LeCaptain at [lecap1dj@cmich.edu](mailto:lecap1dj@cmich.edu) or John McKeen at [jcmckeen@dow.com](mailto:jcmckeen@dow.com).

- February 16 (1:00 – 3:00 PM) – SMART (Science Meets Art) program, Creative 360, 1517 Bayliss Street, Midland. Free program, but pre-registration is required. For more information, please see <http://www.becreative360.org/events/yes-can-science-meets-art-2015-02-02/>.
- February 18 (6:00 – 8:00 PM) – MMAIChE sponsored lecture, *Entrepreneurship in Engineering*, presented by Margie Pierce, Owner, Sourcing Engineers, Inc. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 7:00 PM presentation. For more information, see <http://www.mmaiche.org/events.html> and click on “Program Flyer” near the top of the page, or contact Bruce Holden at [bsholden@dow.com](mailto:bsholden@dow.com).
- February 24 (Save the date) – ACS Program-in-a-Box event on the topic of *Chemistry on the Silver Screen*. For more information, contact Wendy Flory at [wcfloxy@dow.com](mailto:wcfloxy@dow.com).
- March 2 (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#.
- March 11 (6:00 – 8:00 PM) – MMAIChE sponsored lecture, *Potential and Controversies of Fracking*, presented by Aaron Johnson, Global Applications Development Leader, Dow Water & Process Solutions. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 7:00 PM presentation. For more information, see <http://www.mmaiche.org/events.html> and click on “Program Flyer” near the top of the page, or contact Bruce Holden at [bsholden@dow.com](mailto:bsholden@dow.com).
- March 22–26 – 249<sup>th</sup> ACS National Meeting & Exposition, Denver, CO. For more information, see <http://www.acs.org/content/acs/en/meetings/spring-2015.html>.
- April 6 (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#.
- April 7 – 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 7 (6:00 – 8:00 PM) – MMAIChE sponsored lecture, *SMI Snow Makers and the Sochi 2014 Olympics*, presented by Joe VanderKelen, President, SMI Snow Makers. Location and time: Grand Traverse Pie Company, 2600 North Saginaw Road, Midland, 6:00 PM dinner (optional), 7:00 PM presentation. For more information, see <http://www.mmaiche.org/events.html> and click on “Program Flyer” near the top of the page, or contact Bruce Holden at [bsholden@dow.com](mailto:bsholden@dow.com).
- 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 (Save the date, evening program) – Midland Section ACS Spring Awards Banquet, 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](mailto:dkdeese@dow.com) or 989-636-9915.
- May 14 (Save the date) – 12<sup>th</sup> 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#.

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

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