

THE MIDLAND CHEMIST

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Chair Column

Michelle Cummings, Chair, Midland Section ACS



2014 is coming to a close very quickly! The national and state mid-term election is now in the rear-view mirror and the holiday hustle is right in front of us. Looking back on 2014, we have had some great new additions to the programs of our Midland Section ACS, including Teacher Training for Next Generation Science Standards (NGSS), Women Chemists Committee (WCC) kick-off, Younger Chemists Committee (YCC) seminars with our Student Affiliates, and a pilot collaboration with Chemists Without Borders (CWOB). It has been exciting to see new faces and meet so many new people through my interaction with the local section. Our board meeting format change was successful in reaching out to members that might not have normally attended a section meeting, including many of our past *Midland Chemist* Editors. It was exciting to hear their fond memories of the Midland Section of past days, and to see the pride in their eyes of being a part of something much greater than they could have imagined.

Looking forward to 2015, we have a great group of leaders (and are looking for more) to continue to enhance and expand the programming within the section. I can see the passion in so many individuals that are actively involved in the section. It is a contagious type of excitement, and I'm proud to be part of it! I anticipate that the presence of the Midland Section ACS will become even more evident throughout the community, especially with the focus on STEM (science, technology, engineering, and math) education and outreach activities. The ACS uniquely promotes the convergence of all of these disciplines and how they apply to the chemical sciences, and this is strengthened through the diversity of our membership. It's easy to be a part of this extremely satisfying experience. Just contact me, Michelle Cummings, at 989-496-4672 or michelle.cummings@dowcorning.com. Yes, it is just that easy!

Election of the 2015 Board of the Midland Section ACS – Voting Deadline, December 1 ***Chelsea Quinn, Chair, Nominations and Elections***

Electronic voting to elect the 2015 Board of the local Midland Section of the ACS is now open. You may access the electronic ballot through the following link:

<https://www.surveymonkey.com/s/2015ACSBallot>

Please note that each Midland Section ACS member may only vote once. By entering a member number and submitting the ballot, you are certifying under penalty of fraud that the input member number is your member number, and that you are voting freely and on your own behalf. In order to vote, you must be a member or associate member in good standing with the ACS. Affiliates are ineligible to vote according to National ACS bylaws. Vote for the candidates of your choice, selecting one for each office except Director, and three for Director. Note that of the Director candidates, those with the top three highest vote tallies will be elected to three-year terms. Click “Submit” on the last page of the candidate profiles to cast your vote.

Your ACS member number is for verification of voter eligibility only, and will be separated from your responses prior to the counting of votes in order to ensure voter anonymity. Your ACS member number is located on your membership card and on the mailing label of your copy of *Chemical & Engineering News*. Your membership number will be either the first seven or eight numbers on your mailing label, invoice, or receipt. If you have trouble finding your member number or encounter any other difficulty in voting, please contact Chelsea Quinn (2014 Chair of Nominations and Elections Committee) at chelsea.quinn@dowcorning.com, or Michelle Cummings (2014 Chair of Midland Section ACS) at michelle.cummings@dowcorning.com.

Please note: **Voting closes on December 1**. You must submit your responses by 11:59 pm on Monday, December 1 for your vote to be counted.

ACS Recognizes Three Dow Women Scientists as 2015 Rising Stars

Mary Jo Piper, Dow Public Relations

Dow’s **Dr. Jaime Curtis-Fisk**, **Dr. Melinda Keefe** and **Dr. Beth Lorsbach** (left to right in photo) are among the 10 women honored with the Women Chemists Committee (WCC) of the American Chemical Society’s (ACS) 2015 Rising Star Award.

The annual WCC Rising Star Award was created in 2011 to recognize up to 10 outstanding women scientists who are approaching mid-level careers and have demonstrated outstanding promise for contributions to their respective fields.

“We are thrilled that three of our scientists have been recognized for their outstanding work,” said A.N. Sreeram, Dow corporate vice president of Research & Development. “Jaime, Mindy and Beth each have a completely different story, but are equally deserving of this recognition. Having three scientists from Dow is a special honor, and we are pleased to see them acknowledged as role models for other women in science.”



Dr. Jaime Curtis-Fisk has been with Dow since 2010 and is an associate scientist in the Formulation Science group within Dow Core R&D in Midland, Michigan. Jaime is currently working in the field of formulation development for the delivery of active ingredients in application areas including pharmaceuticals, microbial control, and packaging. She has authored 23 internal technology reports, 16 internal invention concept documents, nine active patent applications, seven external publications, and 11 national conference presentations. Jaime is active in championing Dow's R&D STEM efforts nationally. She founded and serves as chair for a local WCC Section in Midland. Jaime holds a bachelor's degree in chemistry from Grand Valley State University and a Ph.D. in chemistry from Michigan State University.

Dr. Melinda Keefe joined Dow in 2001 and currently serves as a principal research scientist and R&D customer focal point for Dow Coating Materials in Collegeville, Pennsylvania. She is an expert in polymer synthesis, paint formulation design and testing, with an active research interest in art conservation science. Melinda is a strong contributor to the technical community, authoring six patent and patent applications, and 24 external publications. She has also given numerous external presentations on coatings, high throughput research, and art conservation science. Melinda was part of the team from Dow that was recognized with the 2013 Presidential Green Chemistry Award and 2013 R&D 100 Award for EVOQUE™ Pre-composite Polymers. In 2014, Melinda was recognized by *Fortune* Magazine with a "Heroes of the 500 Award" for her successful work on behalf of London's Tate Modern gallery supporting the restoration of a Mark Rothko painting that had been vandalized with black graffiti ink. Melinda earned her undergraduate degree in chemistry from Pennsylvania State University and her master's degree and Ph.D. in inorganic chemistry from Northwestern University.

Dr. Beth Lorsbach is the process chemistry leader for Actives to Products R&D with Dow AgroSciences. She has been with the company since 1999. Beth is an expert in synthetic organic chemistry as well as agricultural molecule synthesis and scale-up. Throughout her career, she has contributed to the product pipeline by advancing new compounds. Beth co-led a fungicide project and guided the synthetic and patent strategy of the team to identify a compound and championed it into development. Beth has a track record of driving and accelerating innovation to add value to the Dow AgroSciences' R&D pipeline. Recently, she has been instrumental in the development of synthetic chemical routes for the manufacture of numerous agrochemical products and intermediates. Beth has authored 24 patent applications, 12 external publications, and 15 national conference presentations. In 2009, Beth was recognized as a finalist for Indy's Best and Brightest Award. She holds a bachelor's degree in chemistry from Boston University and a Ph.D. in organic chemistry from the University of California, Davis.

"On behalf of the Women Chemists Committee, we want to congratulate the new group of Rising Star Award winners," said Amber Charlebois, WCC ACS Chair. "It's exceptional for three of the award winners to be from the same organization, so we want to extend special congratulations to Dow on the success of the three women recognized this year."

The Rising Star Award winners will be formally recognized at the [2015 ACS Spring National Meeting](#) in Denver, Colorado.

For Science Faculty and Foodies

Gina Malczewski, Outreach Committee Leader and Secretary

November 1 was our K-12 teacher workshop (CLASS: Conducting, Linking and Supporting Sciences) at Bay City Western High School. It was designed to familiarize teachers with activities that comply with the Next Generation Science Standards (NGSS). These activities will help teachers educate in the spirit of the NGSS standards, which, although not yet officially adopted in Michigan, are indicative of a trend toward increased application and critical thinking in the science classroom.

We benefited from a \$3,000 Innovative Project Grant (IPG) from the ACS and wonderful collaborations with the Michigan Science Teachers Association (MSTA), Bay City Public Schools (BCPS), Saginaw Valley State University (SVSU) Math and Science Center, and Dow Chemical Company. Dow graciously provided free lunches for all of the 77 attendees and staff. We also were privileged to host Dr. Melanie Cooper of Michigan State University, trained in chemistry as well as education, who spoke about the importance of the NGSS standards. Additional presenters included Fisher Scientific, Hartley Nature Center, Consumers Power, and staff from BCPS. Attendees received Michigan State Continuing Education Class Hour (SCECH) credits for all activities at no cost and were also able to take advantage of many giveaways.

The Midland Section ACS offered four hands-on sessions, including our "Bringing Science to Life in the Classroom", a long-standing program popular for chemistry lessons on states of matter, acids and bases, nutrition chemistry and more. Two new sessions were developed for the workshop. The six units of "Sci-Tech Next Generation: Part 1" address curriculum topics like Weather and Climate, and Energy and Water. "Part 2" has five units, with activities that investigate topics including chemical reactions, polymers, and forces. Each unit features many experiments described in full detail. These activities will also be utilized for in-class presentations by our volunteers, and for future outreach event presentations.

This recent event was a year in the making, and we would like to thank our dauntless volunteers: Cassie Hale, Gina Malczewski, Joan McMahan, Sue Perz, Michelle Rivard, Jeff Seifferly, and Lisa Thackery.

Shifting the topic to food, did you realize that cake and marshmallows are examples of culinary foams? "There's No Food ... Like Foam" was presented at the Saginaw Career Complex on October 20 by Chef Aaron Gaertner and Gina Malczewski – the first in a new series of science cafes about the molecular gastronomy of this increasingly popular food form. Coconut-curry popcorn and chocolate mousse are just two of the delights that were discussed, demonstrated, and distributed during this program. Be on the lookout, we will have additional presentations (with free samples!) planned for the new year, with the first such event likely to be in Midland.

One further note about upcoming science outreach activities. We will be offering a science cafe on Cosmetic Chemistry on January 10 at the Midland Center for the Arts. This is a free event, but pre-registration is required ahead of time at [Science Cafe: Cosmetics](#).

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 or 989-636-5225 for more information.

- **Bill Donberg**, President/CEO, Aetos Group Inc.
Unmanned Aircraft Systems – They Are Coming!
Thursday, December 11, 2014, 6:00 p.m. dinner (optional), 7:00 p.m. presentation
- **Dan Hickman**, Fellow, Dow Chemical (recipient of 2014 Chemical Engineer of the Year award)
Scale-Up of Two Industrial Trickle Bed Hydrogenations Using Laboratory Reactor Data
Wednesday, January 21, 2015, 6:00 p.m. dinner (optional), 7:00 p.m. presentation
- **Margie Pierce**, Owner, Sourcing Engineers, Inc.
Entrepreneurship in Engineering
Wednesday, February 18, 2015, 6:00 p.m. dinner (optional), 7:00 p.m. presentation
- **Aaron Johnson**, Global Application Development Leader, Dow Water & Process Solutions
Potential and Controversies of Fracking
Wednesday, March 11, 2015, 6:00 p.m. dinner (optional), 7:00 p.m. presentation
- **Joe VanderKelen**, President, SMI Snow Makers
SMI Snow Makers and the Sochi 2014 Olympics
Tuesday, April 7, 2015, 6:00 p.m. dinner (optional), 7:00 p.m. presentation

Science Café: Chemistry of Cosmetics – January 10 **MCFTA Program Office**

Join us to explore cosmetic science, especially as it relates to silicones in personal care. Learn about hair and skin, the tests that are used to evaluate cosmetic products, and the nature of typical products. Guests will make their very own lotion!

Saturday, January 10, 2015, 11:00 AM – 12:30 PM. Held at the Midland Center for the Arts. Ticket Prices: FREE! But, pre-registration is required ahead of time to guarantee a seat! To pre-register, go to [Science Cafe: Cosmetics](#).

Recommended for ages 10 and up. Ages 12 and under must be accompanied by an adult. Limited availability, so please register early! This program is presented in partnership with the Midland Section of the American Chemical Society.

Pat Smith Honored with ACS E. Ann Nalley Regional Award for Volunteer Service ***Rusty Govitz, Communications Director, Michigan Molecular Institute***

Dr. Patrick Smith, Research Scientist at Michigan Molecular Institute, was honored recently by the American Chemical Society with the E. Ann Nalley Regional Award for Volunteer Service. The award recognizes the volunteer efforts of individuals who have served the ACS, contributing significantly to the goals and objectives of the Society through their regional activities. Smith, whose work at MMI focuses on biobased chemistry, was given the award at the recent ACS Central Regional Meeting in Pittsburgh.

“It’s a great honor to be counted among the previous recipients of this award, many of whom are giants in the Society,” Smith said. “I think a common thread you’ll find throughout that group of people is a great love of chemistry and a real fondness for the professional and personal relationships developed through the Society.”

The award was instituted in 2006 by ACS Past President E. Ann Nalley as part of her presidential initiative to recognize ACS volunteerism. A nominee must be a member of the American Chemical Society residing in a local section within the Central Region, and will have made significant contributions to their region of the American Chemical Society. The volunteerism to be recognized may include a variety of activities, including but not limited to the initiation or sponsorship of a singular endeavor or exemplary leadership in the region.



Smith received a Ph.D. in Physical Chemistry from Michigan State University and then joined The Dow Chemical Company, where he spent 32 years, retiring in 2007 as a Fellow. He served with Cargill Dow Polymers, which commercialized poly(lactic acid), from 1998 to 2000. After retiring from Dow, he joined Archer Daniels Midland in 2007 as the team leader for their Metabolix joint venture to commercialize poly(hydroxyalkanoates) and worked on other biobased projects at ADM. He joined the Michigan Molecular Institute in November of 2010.

Smith is a Fellow of the American Chemical Society and has received the Midland Chapter Sigma Xi Award for Outstanding Research Publication in 1987 and the Midland Chapter ACS Award for Outstanding Achievement and Promotion of the Chemical Sciences in 1998. He is also the recipient of Dow Analytical Sciences’ V.A. Stenger Award in 1984 (Analytical Sciences’ highest award) and the Dow Michigan R&D Scientists’ Award in 1994 for excellence in scientific contribution (Dow Chemical Scientists’ highest award).

5,000-Plus Served by Midland Section 2014 NCW Activities ***Amy Tesolin-Gee, Publicity Chair and Midland Chemist Editor***

The Midland Section of the ACS celebrated National Chemistry Week (NCW) by offering our annual Fall Scientific Meeting and Sci-Fest outreach event in conjunction with the Dow Great Lakes Bay Regional Science & Engineering Festival. The festivities were held September 26–27 on the Delta College campus in University Center, Michigan. Along with the ACS Midland Section, sponsors included The Dow Chemical Company, Mid-Michigan Technician Group, Michigan Technological University’s Mind Trekkers, Delta College, Dow Corning Foundation, GM, Nexteer and several other community foundations and businesses.

This year's Fall Scientific Meeting theme was "*The Sweet Side of Chemistry*" featuring keynote speaker, Dr. Richard W. Hartel of the University of Wisconsin – Madison, discussing candy chemistry complete with samples to help attendees appreciate the differences in chemistry and processing of the various candies discussed. The meeting included a poster session showcasing the work of seasoned researchers, as well as many high school and college student presenters. Additional speakers from industry and academia covered the chemistry of ice cream, cocoa beans and chocolate.

The Dow Great Lakes Bay Regional Science & Engineering Festival and Sci-Fest drew 3,554 students on Friday, September 26, and approximately 1,500 more people on Saturday, September 27.

At the ACS station on Friday, students learned about marshmallows and gum. Activities related to gum included some history review, gum-chewing to monitor its weight loss and discussing the reason why, and a bubble-blowing contest. Marshmallows were presented as a carbohydrate foam (its "toasting" to carbon was demonstrated) that often contains gelatin and cornstarch (iodine starch testing was done). We then subjected marshmallows to microwave heating and to vacuum, noting the expansion and removal of gases under the different conditions. The students all enjoyed the presentations and were surprised by what they saw!

On Saturday, the attendees' lesson in the sweeter side of food polymers involved making their own chewing gum using Glee Gum™ base, powdered sugar, and corn syrup with various flavorings. Attendees learned the history and polymer differences between chewing gum and bubble gum. Demonstrations of the effects of vacuum and microwaving on marshmallows were again offered (demonstrating Charles' and Boyle's Laws). Crowds were steady, with kids and chaperones well engaged—a great turnout and a successful learning opportunity!

In addition to the hands-on science demos, the Midland Section ACS also sponsored presentations by Dr. Slime, a perennial favorite of kids and adults alike.

The Midland ACS team continued the theme of foams by hosting a second NCW event, *The Gas in Gastronomy: All About Culinary Foams!* Dr. Gina Malczewski and Chef Aaron Gaertner presented a sweet and tasty side of foam chemistry with this science café, offered to the general public, and held at the Saginaw Career Complex on October 20. The science of delicious foams such as coconut-curry caramel popcorn balls, cherry "mocktails," and chocolate mousse with homemade toasted marshmallows was demonstrated with samples provided for all.

Pictures of these events can be found here:

<https://www.flickr.com/photos/michigantechyp/14908381784/in/set-72157648325700349>

<https://www.flickr.com/photos/michigantechyp/15342763140/in/set-72157648325700349>

<https://www.flickr.com/photos/michigantechyp/14908384824/in/set-72157648325700349>

Midland Section Receives 2014 ChemLuminary Award as Most Outstanding Section

Matt Grandbois, Chair-Elect

The Midland Section of the American Chemical Society was honored for its Outstanding Performance by a Local Section (Medium Size) during the 248th National ACS Meeting in San Francisco, CA. This is the second year in a row that the Midland Section has received this ChemLuminary Award and marks the 16th time our Section has received this honor.

The ChemLuminary Award for Outstanding Performance by a Local Section is sponsored by the Local Section Activities Committee (LSAC) and awarded to sections that provide the highest level of programming to their local members and surrounding communities. Specific events such as the “Loco for Cocoa: The Chemistry of Chocolate” outreach series, hosting the 44th Central Regional Meeting, and a successful partnership with our Sci-Fest event were mentioned during the awards ceremony held at The Palace Hotel on Tuesday, August 12, 2014. Several members of the local leadership were present during the awards ceremony and 2014 Chair-Elect Matt Grandbois accepted the award on behalf of the Section.



Chair-Elect Matt Grandbois (center) receives 2014 ChemLuminary Award on behalf of Midland Section from 2013 LSAC Chair, Martin Rudd (left) and 2013 ACS President, Marinda Wu (right).

The Midland Section was also a finalist for several other ChemLuminary Awards. The Mid-Michigan Technician Group held an event entitled “Science for the Season” for Gladwin Shelterhouse that was a finalist in the category for Best Event or Activity Organized by, or Benefiting, the Applied Chemical Technology Professional Community. The annual Sci-Fest event, which was held in conjunction with the Great Lakes Bay Science and Engineering Festival that brought STEM activities to over 5,000 participants, was a finalist in the category for Outstanding On-Going National Chemistry Week Event. The 44th Central Regional Meeting held on the campus of Central Michigan University in Mt. Pleasant, MI was a finalist in the category for Outstanding Regional Meeting.

This year’s ChemLuminary Award is a direct result of having outstanding volunteers that provide engaging programming for their fellow members and passionately crusade to educate the local region about the power of chemistry, so thank you all for your time, talents, and energy! A special thank you is extended to 2013 Chair Wayne Konze for his leadership during this award-winning year. The 2014 year is almost to a close, yet there is always time to get involved, so please reach out to our local leadership to learn more about how you can be a part of the strong tradition of outstanding performance that is our Midland Section.

Seeking Help with an Eye for Detail—MC Editor(s) Needed

Amy Tesolin-Gee, Midland Chemist Editor

The Midland Section ACS is in need of a new editor, or co-editors, for *The Midland Chemist* (MC). Since the spring of 2009, I have had the pleasure of serving as an MC editor in various forms and have elected to resign from my role, effective January 2015, to free myself for other pursuits. I will continue to serve the Midland Section as a STEM outreach volunteer, publicity committee chair, and more.

Editing the MC has been a great opportunity to expand my network within our local scientific community. In addition to enhancing communication, leadership and organizational skills, students and others looking for professional volunteer opportunities might especially appreciate the flexible nature of this role. It is also excellent experience to include on a CV or résumé, graduate or professional school application, and can be a useful tool for professional development.

Currently, I have been sharing the editor role with Steve Keinath of Michigan Molecular Institute. Steve has also served as an MC editor at various points through the years and would appreciate some relief as well. I have been editing the even-month issues while Steve has been handling the odd months. The format is MS Word-based and very easy to work with in terms of formatting.

The MC editor role involves e-mailing out a call for articles—and establishing the deadline—to the Board and committee chairs each month. News items are then assembled and edited as needed. For convenience, the previous month's issue can be used as a template—which is especially helpful as some articles are re-run in subsequent issues. Once finished, it is saved in PDF format and forwarded to the webmaster who posts it to the website and e-mails a link to the Midland Section ACS members and other subscribers.

It should be noted that one does not need to be an ACS member to serve as an MC editor, although that would be helpful, and there is no minimum or maximum term of commitment required. When I started, I was not an ACS member but eventually opted to join as I became increasingly involved with outreach, publicity, and many of the other benefits of ACS, and the Midland Section in particular.

Do you know of someone (including you!) who might be interested in helping to continue this fine tradition, established 50 years ago in April 1964? If so, please let us know—and thanks in advance for passing this article along to others who may be glad to consider this opportunity. Steve and I are committed to helping the next editor(s) transition into their role, working behind-the-scenes as needed.

For more information, and to access the archive of several years of past issues, please see the following link to *The Midland Chemist* section of our website: <http://midlandacs.org/index.php?page=newsletter>. For questions, suggestions, or to volunteer, please contact Amy Tesolin-Gee at amtesolin-gee@dow.com (phone 989-636-1903) or Steve Keinath at keinath@mimi.org (phone 989-832-5555 x588).

Upcoming Dates, Events, and Other Updates

- December 1 (11:59 PM) – Deadline for voting for 2015 Midland Section ACS Officers and Board members. The electronic (only) ballot is found at <https://www.surveymonkey.com/s/2015ACSBallot>. If you encounter any difficulty in voting, please contact Chelsea Quinn, 2014 Chair of the Nominations and Elections Committee, at chelsea.quinn@dowcorning.com.

- December 4 (6:00 – 8:00 PM) – Midland Section ACS 4th Quarter Committee updates and year-end celebration, Central Michigan University, Dow Science Building, Room 107. Contact Michelle Cummings (michelle.cummings@dowcorning.com) for any questions.
- December 11 (6:00 – 8:00 PM) – MMAIChE sponsored lecture, *Unmanned Aircraft Systems – They Are Coming*, presented by Bill Donberg, President/CEO, Aetos Group, 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.
- January 5 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- January 10 (11:00 AM – 12:30 PM) – *Chemistry of Cosmetics*, Midland Center for the Arts. Free event, however, pre-registration is required ahead of time at [Science Cafe: Cosmetics](http://www.sciencecafe.org/cosmetics).
- January 21 (6:00 – 8:00 PM) – MMAIChE sponsored lecture, *Scale-Up of Two Industrial Trickle Bed Hydrogenations Using Laboratory Data*, presented by Dan Hickman, Fellow, Dow Chemical (recipient of 2014 Chemical Engineer of the Year award). 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.
- February 2 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- 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.
- 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.
- March 22–26 – 249th ACS National Meeting & Exposition, Denver, CO. For more information, see <http://www.acs.org/content/acs/en/meetings/spring-2015.html>.
- 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.
- May 27–30 – ACS Joint Great Lakes/Central Regional Meeting, Grand Rapids, MI. For more information, see <http://jglcrm2015.com/>.

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