

THE MIDLAND CHEMIST

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48th Central Regional Meeting (CERM 2017), June 6-9

Steve Keinath, Co-Editor, The Midland Chemist

This is just a quick reminder to everyone not to forget about the upcoming 48th Central Regional Meeting (CERM 2017) being held in Dearborn, MI, on June 6-9, 2017.

For more information, please see the CERM 2017 home page at <http://acscerm2017.org/>.

To register to attend CERM 2017 and its associated events, please go to <http://acscerm2017.org/register/>.

Finally, the full program for CERM 2017 can be found at <http://acscerm2017.org/programs/>.

CERM Educator Survey--Open Now!

Gina Malczewski, Director and Teacher Support Chair, Midland Section ACS

The Education Committee for CERM 2019 has sent out a survey to a distribution list of educators in the Central Region to solicit interest and help identify programs that would be valued for this audience. We are attempting to reach school teachers (public, private, and home) as well as educators in museums, libraries, after-school programs, etc. If you know of an educator in the ACS Central region (<http://www.centralregionacs.org/about-us/>) that has not received a survey, please have them go to <https://goo.gl/forms/UgjwHPj1ubgqy9YE3> to participate, or contact Gina Malczewski (reginamalczewski@gmail.com) with questions. We are using a hand-built list of contacts for this iteration, but intend on distributing another survey in fall 2018 to a broader audience. Among the options being considered for the educational portion of the meeting that require input are speakers, workshops, social activities, poster sessions, and long-distance sharing/learning opportunities.

Midland Section Receives ACS ChemLuminary Award Nominations for Outstanding 2016 Activities

Jaime Curtis-Fisk, Past Chair, Midland Section ACS

The American Chemical Society celebrates the outstanding contributions and achievements of local sections, divisions, and regional meetings through the ChemLuminary Awards. The awards are presented at the fall national meeting (August 20-24, 2017, Washington, DC) in an awards ceremony that celebrates the accomplishments of the dedicated volunteers that make these programs possible. The Midland Local Section has a long history of strong representation, and the trend continues this year as we were selected as a semi-finalist for nine awards. Most notably, the overall success and strong performance of our section has yet again been recognized as a semi-finalist for the "Outstanding Performance by a Local Section (Medium Size)" award. Congratulations to all of our amazing volunteers that make these programs possible, and we look forward to bringing home many more awards.

- **Outstanding Performance by a Local Section (Medium Size).** The Midland Local Section is once again nominated for the outstanding performance award based on the high quality programming and initiatives that we provide to our members and the community.
- **Creative & Innovative Use of the CCED Theme: Earth Day Expo and Seminar.** An Earth Day hands-on expo celebrating "The Great Indoors" theme was sponsored at the Midland Center for the Arts, and MSU professor Susan Masten provided an excellent seminar entitled "The Chemistry of Crisis: What Happened to Flint's Water?" which covered a chronology of events as well as the science behind the water contamination.
- **Global Engagement Award for Local Sections: Science Teaching in Guatemala.** An ACS Global Innovation Grant was used to bring supplies, written lessons, and a hands-on teacher workshop to rural Guatemala where educators from three institutions had 3.5 days of training in a variety of curriculum-relevant science topics to share with their classes.
- **Most Creative NCW Celebration Using the Yearly Theme: Activities at Education Day with the Saginaw Spirit, Great Lakes Bay Science and Engineering Festival, and Forensics at Bay City Western Middle School.** Hands-on activities and give-ways related to determination of "real fruit" in juices, identifying polymers, fiber analysis, fingerprinting, blood group identification, document examination and other tests were conducted at three different venues over multiple months to celebrate "Solving Mysteries through Chemistry".
- **Most Innovative Activity in a Local Section for Senior Chemists: Silver Circle "Four Seasons" Program Summer and Fall Activities.** An outdoor lunch and garden tour were held at Creative 360 in August. Ice cream treats were provided as well as a "Chemistry of Ice Cream" webinar and demo. In October, a tour of Leaman's Applebarn and hayride were followed by a chili dinner with cider, donuts, and live music.
- **Outstanding High School Student Program Award: Hands-on sessions at Midland High School.** Day-long labs at Midland High School were done three times: Alka-Seltzer Reactions, Carnival Science, and Diet Pop and Mentos. These sessions were accompanied by worksheets, and

covered topics such as chemical and physical reactions, force, pressure, carbohydrates, aldehydes and ketones, redox reactions, endothermic reactions, and acid-base chemistry.

- **Outstanding Kids and Chemistry Award.** In 2016, the Midland Kids and Chemistry volunteers made at least 22 local school visits (most of them for multiple classes), and presented seven teacher workshops. Two six-week programs were offered and a total of about 16,000 people attended a variety of community, school and conference activities, most of them hands-on and all of them interactive.
- **Outstanding NCW Event for a Specific Audience; Hands-on Forensics Program for Eighth Graders at Bay City Western Middle School.** Three classes of eighth graders solved a theft by assessing evidence from document, plastic, and tape analysis, blood typing, fingerprinting, and soil and fiber examination. Careers in forensics were also discussed.
- **Best Event or Activity Organized by, or Benefiting, the Applied Chemical Technology Professional Community.** The Mid-Michigan Technician's Group (MMTG) hosted a symposium and networking reception at the Midland Local Section Fall Scientific Meeting to draw attention and celebrate 25 years of MMTG.

MSU Summer Chemistry Lab Courses Now Offered in Midland – Summer II Session Begins July 6 *Melanie Kauffman, Michigan State University*

In Summer Session Two, **July 6 through August 17, 2017**, Michigan State University will offer two credit-bearing chemistry lab courses in its facility at 1910 W. St. Andrews Road, Midland. Free on-site parking is available.

CEM 162, **Chemistry Laboratory II**, will be offered on Tuesday and Thursday afternoons from 2:00 p.m. to 4:50 p.m. The course covers analytical and inorganic chemistry; redox and acid base titrations; spectrophotometric and gravimetric analysis; preparation and analysis of coordination complexes of nickel, iron, and cobalt. (1 credit)

CEM 255, **Organic Chemistry Laboratory**, will be offered on Tuesday and Thursday afternoons, with a lecture from 1:00 p.m. to 1:50 p.m. and a lab session from 2:00 p.m. to 4:50 p.m. each day. The course involves preparation and qualitative analysis of organic compounds. (2 credits)

Open to current MSU and other college students, and high school students with AP chemistry credit.

Details found here: <http://research.msu.edu/msu-to-offer-chemistry-laboratory-courses-in-midland-this-summer/>

2017 Midland Section ACS Spring Awards Banquet

Diana K. Deese, Awards Committee Chair, Midland Section ACS

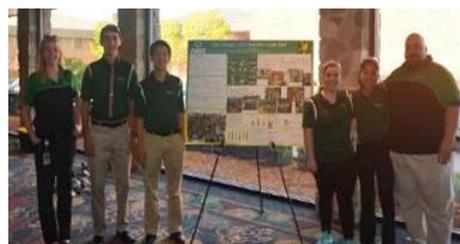
One hundred years ago Albert Einstein wrote a paper on the quantum theory of radiation. Additionally, and more commonly known, he is credited for developing a theory regarding relativity that included something about gravity. But, digressing to a more philosophical sense, he compared time spent with a pretty girl to time sitting on a hot stove. In preparing this article and reviewing images, one thing is certain; relative to everyone who attended the 26th Annual ACS Midland Section Awards Banquet on May 4th, philosophically, I am vertically challenged, which I am sure has (relatively) something to do with mass and gravity. But, I digress.



Dr. Einstein is also credited with the quote, **“Imagination is everything. It is the preview of life’s coming attractions.”** If that is the case, the chemical related sciences are in good hands and its future is beyond promising as witnessed by the talent honored at the Midland Section’s recognition banquet.

“Anyone who has never made a mistake has never tried anything new.”

The evening started with something new; a poster session that highlighted the STEM (science, technology, engineering, and math) initiatives in the Great Lakes Bay Region. Presenters included The Midland Section ACS, H.H. Dow High robotics team, Calvary Baptist Academy, Michigan State University-St. Andrews, Central Park Elementary, and Saginaw Valley State University. A huge “Thank-you” to Patrick Smith and Wendell Dilling for organizing this part of the program.



LaTrese Garrison, Executive Vice President of the ACS Education Division, gave a presentation titled, “Show Up to Leave a Lasting Impression” through which she encouraged each of us to be mindful of how others see us and reflect on who has made a lasting impression on us. Mr. Einstein said, in reflection **“...there is one thing we do know that we are here for the sake of each other – above all for those upon whose smile and well-being our own happiness depends...”** As we go about our daily lives, thank those who have had a positive impact on us, seek opportunities to mentor, be a political advocate for science, and, stay safe by adopting the “see something, say something” mantra.

Dr. Michael Tulchinsky honored those Chemistry Olympiad students who learned **“the value of achieving lies in the achieving”** by presenting each a Chemistry Olympiad finalist certificate and ACS honor cords.

<i>William Sadilek</i>	<i>Chesaning Union High School</i>
<i>Stephen O'Donnell</i>	<i>H. H. Dow High School</i>
<i>Michael Moore</i>	<i>H. H. Dow High School</i>
<i>Joshua Ulman*</i>	<i>John Glenn High School</i>
<i>Michael Durbin</i>	<i>John Glenn High School</i>
<i>Ethan Bruce</i>	<i>Midland High School</i>
<i>Matthew Gordon</i>	<i>Midland High School</i>
<i>Sarah Zhao</i>	<i>Mt. Pleasant High School</i>
<i>Morgan Smith</i>	<i>Mt. Pleasant High School</i>
<i>James Shepich</i>	<i>Saginaw Arts & Sciences Academy</i>



Twenty-nine of the 48 high schools in the Midland Section area participated in the Outstanding High School Chemistry Student Awards. I wonder who said, **“Education is not the learning of facts, but the training of the mind to think”**, because thinking, well, it is a pretty good skill to have. These students got it going on! Coincidence that they grew up watching “Little Einsteins”?

<i>Grace Anderson</i>	<i>All Saints High School</i>	<i>Hannah Marietta*</i>	<i>Hemlock High School</i>
<i>Darrien Thornton</i>	<i>Arthur Hill High School</i>	<i>Isaiah Langley</i>	<i>John Glenn High School</i>
<i>Frederick Bauer</i>	<i>Bay City Western High School</i>	<i>Jamison Piper</i>	<i>Meridian High School</i>
<i>Shelby Trevino*</i>	<i>Beal City High School</i>	<i>Asher Jordan</i>	<i>Merrill High School</i>
<i>Jacob Irwin</i>	<i>Birch Run High School</i>	<i>Matthew Gordon</i>	<i>Midland High School</i>
<i>Colton Sitts</i>	<i>Breckenridge High School</i>	<i>Sarah Zhao</i>	<i>Mt. Pleasant High School</i>
<i>Ashley King*</i>	<i>Bridgeport High School</i>	<i>Samantha R. Kowalczyk</i>	<i>Pinconning High School</i>
<i>Bradley Pinet*</i>	<i>Bullock Creek High School</i>	<i>Isabella Kostrzewa</i>	<i>Sacred Heart Academy</i>
<i>Matthew Adams</i>	<i>Calvary Baptist Academy</i>	<i>Safi-ur-Rahman Syed</i>	<i>Saginaw Arts & Sciences Academy</i>
<i>Kyle Bolander</i>	<i>Calvary Baptist Academy</i>	<i>Quin'Tasia Nevitt*</i>	<i>Saginaw High School</i>
<i>Tyler Warner</i>	<i>Carrollton High School</i>	<i>Olivia Moeggenborg</i>	<i>Shepherd High School</i>
<i>Elizabeth Hoornstra</i>	<i>Chesaning Union High School</i>	<i>Dylan Crampton</i>	<i>St. Charles High School</i>
<i>Michael Roeglin*</i>	<i>Frankenmuth High School</i>	<i>Alyx Everitt</i>	<i>St. Louis High School</i>
<i>Mackenzie Davies</i>	<i>Freeland High School</i>	<i>Paige Tweddle</i>	<i>Swan Valley High School</i>
<i>Michael Moore</i>	<i>H. H. Dow High School</i>	<i>Sarah Kempin</i>	<i>Valley Lutheran High School</i>



“Wisdom is not a product of schooling but of the lifelong attempt to acquire it” and our Outstanding College Chemistry students realize this as they embark on their careers in the Chemical Sciences.

Chemistry:

Kendall R. Kamp Alma College
Kaitlyn Klay Central Michigan University
Austin King Delta College
Marissa Dobulis Saginaw Valley State University

Biochemistry:

Krestina Bednarz Central Michigan University
Kathrynne Warrick Saginaw Valley State University
Emily Greeson Saginaw Valley State University
Alexander Hall Alma College



One of the toughest jobs has to be that of an educator. A notable educator of our time said, **“I never teach my pupils, I only provide the conditions in which they can learn.”** We have the finest teachers in our region and this was a grand opportunity to show them we appreciate them. Fittingly, it was the week before teacher appreciation week.



Rebecca Field of Kolb Elementary was presented the Outstanding Achievement in Elementary School Science Teaching Award by Suzanne Billette (also an amazing teacher from Kolb elementary). Described as the “Bill Nye” of the area, Ms. Field makes science fun and interesting; teaching her students to think outside the box and be creative problem solvers. She strives to continually improve her knowledge and teaching skills by taking any extra classes available to her. Rebecca recently presented “The Chemistry Phenomenon – Learning Science at Every Grade Level” award at the San Francisco ACS convention. Using sodium polyacrylate, sodium alginate in gummy worms, and baking soda and vinegar, she demonstrated how teachers

can use chemistry reactions to gain students’ attention, then engage them in the lesson.

Allison Vandriessche was presented with the Outstanding Achievement in Middle School Science Teaching Award by Amy Bailey, principal of Western Middle School. After participating in the SVSU Dow Fellows Program, Allison successfully implemented a science club at Western Middle School. She also volunteers as a Science Coach so that students have the opportunity to “experience science” including organizing a school-wide science fair which involved over 600 students. Working with organizations such as Cranbrook Institute, WMU’s geology department, ACS, and SVSU to bring in programs, Allison also has applied for several grants which have allowed the school to purchase new equipment. It is rumored she has a rescued gecko, that assisted in one of the science programs, that needs a home. If you are interested in adopting this little creature, contact me.

Thriving on challenge and rebuking mediocrity, *Kenneth Quackenbush*, from Arthur Hill High School, is the recipient of the Outstanding Achievement in High School Chemistry Teaching Award. Ken has been passing

along his knowledge of chemistry for 18 years, not only as a teacher who builds strong relationships with his students, but also as a mentor to his colleagues. Giving up Saturdays and Sundays to assist with Science Quiz Bowls and restructuring the high school sequencing of the District's curriculum, he proudly lives up to the school motto, "Achievement with Honor". Prior to becoming a teacher, Ken worked for The Dow Chemical Company in research and development where he gained insight that allows him to make real-world science connections for his students. Add to that his extreme confidence, humor, compassion, and strong commitment to inner-city youth, and it is easy to see why the teaching profession is proud to call Mr. Quackenbush one of their own.

From Alma College, the dynamic duo of Joel and Nancy Dopke received the Outstanding Achievement in College Chemistry Teaching Award for their shared appointment. Kendall Kamp, one of their students, presented the award to them. Nancy and Joel successfully incorporate research into the classroom, find new ways to engage their students, continually support research students, actively participate in research groups and conferences, and have a strong record of supporting Alma College in many different roles. Joel served as the Chair of Chemistry and the Chair of the Natural Science Division. Nancy is currently Director of the Integrated Health Studies Program. With a multitude of grants and presentations between them, their dedication to their students and their profession certainly make them an asset to chemistry education.

A sentiment echoed by every speaker we have had for our awards program, is the importance of becoming involved and volunteering. **"Only a life lived for others is a life worthwhile."** This was exemplified by the documented deeds of *Nalayini Kogulan*, the 2017 Science Education Volunteer Award recipient. Ronda Grosse presented Ms. Kogulan with her award and spoke of Nalayini's passion for teaching elementary students the scientific method and creative problem solving. She regularly volunteers at schools, with Destination Imagination, and the ACS Outreach and Education programs.



"Once we accept our limits, we go beyond them" and in doing so, become an inspiration to others. The next three awards show that there are no limits when people strive to make a difference in career, in their organizations, and in the chemical sciences. *Stephanie Hughes* (The Dow Chemical Company) was selected as the Outstanding Chemical Technician. Stephanie not only exhibits versatility in synthesis and application skills, but also strives to improve experimental methodology resulting in quality information in a more productive manner. Her work has set company standards and provided a platform for many new products in the coating materials business.



In an act of mutiny (which Einstein had no quote for) by her colleagues on the awards committee, *Diana Deese* (The Dow Chemical Company) was secretly nominated for the Outstanding Service to the American Chemical Society Award. I surmise this was due to my activities with the Awards Committee, and, my passion for being an ACS and Dow STEM Ambassador. Last year I volunteered 468 hours back to the community. As for my awards team, I later gave them eye patches to keep as a remembrance of their piracy, and I am humbled to receive this recognition.

Bridging the world of organic and silicone chemistries, *Michael Ferritto* received long overdue recognition for his Outstanding Achievement and Promotion of the Chemical Sciences. His prolific career is demonstrated by his 24 patents and numerous internal and external papers, including as editor of the book *Polymers for Personal Care and Cosmetics*. Mike has been an active member of the ACS for over 33 years and has been a dedicated mentor, not only to his colleagues, but to the community at large. Michael has taught short courses to key customers, through technical workshops, and as an invited speaker at ACS national meetings. He has even been known to spend a Saturday promoting science to local Girl Scouts through captivating experiments. His innovative spirit and desire to help those around him advance in their capabilities has made Michael one of the premier silicone chemistry scientists in the Dow organization.



Each year, the awards committee selects five individuals who are making a difference in the community. **“Excellence is doing a common thing in an uncommon way.”** The 2017 Salute to Excellence Awards:

*Mike Garlick**: (Delta College) for inspiring scientists of all ages through his alter ego, “Dr. Slime”, and his exciting, educational, and entertaining “Magic of Chemistry” presentations.

Michael Tulchinsky: (The Dow Chemical Company) for his dedication to the role of Chemistry Olympiad Committee Chair and collaboration with over 40 high schools in the Midland Section area to administer exams and select the best chemistry student candidate to move on to the National and International Chemistry Olympiad competitions.



Adrienne Cole: (Saginaw Valley State University/The Dow Chemical Company) for her dedication to the role of STEM Program manager, advocating for best practices for STEM education, preparing students for STEM careers, supporting STEM educators, and coordinating a small army of STEM volunteers.

Brian Brutyn: (Midland Public Schools – Central Park Elementary) for his dedication to Project Based learning and Project Lead The Way, and for creating an integrated, community network to ensure success for students at Central Park Elementary and Midland Public Schools.



Sean V. Murray: (H.H. Dow High School) for his leadership of “The Charge”, the H.H. Dow High School Robotics Team, and inspiring students to work as a team designing, fabricating, constructing, and testing large-scale robots to compete at regional, state, and international FIRST competitions.

“Creativity is intelligence having fun.” Nowhere is this more apparent than in the chemists who have spent 50, 60, and even 70 years as a part of the American Chemical Society. I love hearing the stories of “how it was back when....” They have set the foundation for what we do and they continue to give back in a multitude of ways. I have not met one yet who wishes they would have taken a different career path!



50 Years

*Edwin Humburg, Jr.
Glenn Lewandos
Sheldon Messing*
Patricia Roush*

60 Years

Leroy Hampton
John Lorand*
Dale Meier*
Richard Moreau
Walter Rupprecht**

70 Years

David Kellom
David Young*



“The value of a man should be seen in what he gives and not in what he is able to receive.”

The kaliapparatus is the triangle symbol present on the ACS logo and is considered one of the most important analytical tools in chemistry – but also one of the most obscure. This instrument reminds me of the consummate professionals we work alongside, the ones who are always there, tending to details, ensuring accuracy, and adding dignity to our programs... but easily taken for granted. One such



individual, Dr. Steve Keinath, was recognized with a special recognition award for all of his contributions to the Midland Section and the Midland Community at large. Steve is an active member of St. John’s Lutheran Church, has served 10 years as a board member of the Legacy Center, and participates in United Way events. As a polymer research scientist at the MMI, he was an expert on such things as fluorescent polyhedral oligomeric silsesquioxanes. For our section, Steve has served as Midland Section Director, newsletter editor (several times), brought us the Turner Alfrey events, currently serves as a section Councilor... and of course, on the awards committee. I had thought about calling this the “classic-kaliapparatus-supportive-genuine-and-constant” award... but Julie Andrews was not available to sing it. Thank you, Dr. Keinath, for all that you do.



“The distinction between the past, present and future is only a stubbornly persistent illusion.”

As always, this night could not have been possible without the amazing Awards Committee. Once again, we have bridged together those that have come before us with those that will follow us. Thank you for volunteering your time to make this program a success!

“I fear the day that technology will surpass our human interaction. The world will have a generation of idiots.” The 2018 awards program will be held on Wednesday, May 2. **“Follow your curiosity”** and I promise you that attending the event is much more satisfying than simply reading about it here! Hope to see you there next year!

I leave you with one final thought from Dr. Einstein: **“Many times a day I realize how much my own outer and inner life is built upon the labors of my fellow men, both living and dead, and how earnestly I must exert myself in order to give in return as much as I have received.”**

** Denotes those who were unable to attend the evening’s events.*

2017 Fall Scientific Meeting – Call for Volunteers

Peter Bai, 2017 Fall Scientific Meeting Chair, Midland Section ACS

The Midland Section of the ACS invites you to attend the 73rd Fall Scientific Meeting on **Saturday, October 21, 2017** at **Saginaw Valley State University (SVSU)**. Drawing faculty, students, and industry professionals from across Michigan, the meeting provides a forum for the exchange of scientific discoveries that span energy, environment, medicine, materials, and other fields where chemistry plays a central role. Some of the presentations will connect with National Chemistry Week’s geological theme, “Chemistry Rocks!”

Please mark this date (October 21, 2017) on your calendar, and stay tuned for more details about the conference in the coming weeks. **We are also looking for several more volunteers to serve on our organizing committee.** Please contact Meeting Chair Peter Bai (PJBai@dow.com) if you are interested.



In Past Issues of *The Midland Chemist*

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

50 Years Ago, *The Midland Chemist* 1967, 4, No. 2 (May.), 8.

In *The Miami Council Meeting* by E. L. Graham, Councilor: "The 1967 President, Dr. Charles Overberger presided at the Council Meeting. It was reported that during 1968 each ACS member will receive as a member service a new journal each month entitled, "Accounts of Chemical Research". The Accounts will consist mainly of concise reviews, each only a few pages long, that discuss the newest findings and supported hypothesis in limited fields of chemical science. A major objective will be to place recent developments in perspective, both as to their connections with earlier work and as to their probable future significance."

40 Years Ago, *The Midland Chemist* 1977, 14, No. 5, 13.

In *The Chemist as an Art Historian, "Chemistry and Art", Dr. Alfred R. Bader, 7:30 P.M. -May 25, 1977, Little Theater – Midland Center for the Arts, 1801 West St. Andrews, Midland:* "During a recent visit to his company's plant in Germany, Dr. Alfred Bader of Aldrich Chemical detoured to Lucerne to attend an art auction. He brought back a 17th century Italian work by one of the students of Caravaggio.

'It's a picture of a beautiful girl holding a platter of whipped cream and strawberries' Bader said. 'The only thing is, I don't think 17th century Italians ate whipped cream and strawberries.

'I'm sending the painting to my restorer and I'm betting the whipped cream all comes off. That girl has to be holding the head of John the Baptist. Somebody made strawberries out of his blood.'"

30 Years Ago, *The Midland Chemist* 1987, 24, No. 4, 3.

In *Chairman's Corner* by George Eastland, Chairman, Midland Section ACS, 1987: "I have some very good news to report. As mentioned previously, the Midland Section entered several area high school students in the National ACS Chemistry Olympiad competition. After an initial exam at SVSC, four students took the national exam, again administered at SVSC. One of those students, Kevin Chaussee, of Midland, received Highest Honors. He actually placed third in the entire nation, and tied for number one in this region. He, and 19 other students in the country, qualified for the training session for the international competition. This training session is to be held in June at the Air Force Academy."

20 Years Ago, *The Midland Chemist* 1997, 34, No. 4, 5.

In *Call For Papers, 1997 Fall Scientific Meeting, Midland, Michigan ACS Section, Location The New Dow Science Complex on the campus of Central Michigan University (Mount Pleasant, Michigan, Date Saturday, November 1, 1997, 9:00 a. m. – 1:30 p. m.* by Anton Jensen and Margaret Hill: "The scientific program will emphasize both chemical research and education. Five symposia are planned as well as a poster session. Tentative symposium topics include Medicinal Chemistry, Advances in Molecular Spectroscopy, Polymer Chemistry, Career Opportunities in Chemistry' and Project Literacy."

10 Years Ago, *The Midland Chemist* 2007, 44, No. 3, 17.

In *CMU SAG Participates, Wins Award at National Meeting* by Kasandra Sheley: "On Friday, March 23, the ACS student affiliate group (SAG) from Central Michigan University traveled to Chicago for the American Chemical Society National Meeting. There were fifteen students and two advisors who ventured on the trip. On Saturday the student affiliates volunteered to help run a Green Chemistry interactive demonstration workshop for underprivileged children at the Notebaert Nature Museum. This was a great opportunity for

both the student affiliates and the children who participated to experience Green Chemistry and see how it affects the world around us.”

Upcoming Dates, Events, and Other Updates

- June 5 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- June 6-9 – 48th Central Regional Meeting (CERM 2017), Dearborn, MI. For more information, see <http://acsclerm2017.org/>.
- June 7 (5:00 – 6:30 PM) – Midland Section ACS 100th Anniversary Celebration planning team meeting, MSU-Midland STEM Center (1910 West St. Andrews Road, Midland). For more information, or to volunteer, please contact Wendell Dilling at dilli1wl@cmich.edu or Gina Malczewski at reginamalczewski@gmail.com.
- June 21 (5:00 – 6:30 PM) – Midland Section ACS 100th Anniversary Celebration planning team meeting, MSU-Midland STEM Center (1910 West St. Andrews Road, Midland). For more information, or to volunteer, please contact Wendell Dilling at dilli1wl@cmich.edu or Gina Malczewski at reginamalczewski@gmail.com.
- July 5 (5:00 – 6:30 PM) – Midland Section ACS 100th Anniversary Celebration planning team meeting, MSU-Midland STEM Center (1910 West St. Andrews Road, Midland). For more information, or to volunteer, please contact Wendell Dilling at dilli1wl@cmich.edu or Gina Malczewski at reginamalczewski@gmail.com.
- July 6 – MSU summer chemistry lab courses now offered in Midland. The Summer II Session begins July 6. Open to current MSU and other college students, and high school students with AP chemistry credit. Details may be found here: <http://research.msu.edu/msu-to-offer-chemistry-laboratory-courses-in-midland-this-summer/>.
- July 19 (5:00 – 6:30 PM) – Midland Section ACS 100th Anniversary Celebration planning team meeting, MSU-Midland STEM Center (1910 West St. Andrews Road, Midland). For more information, or to volunteer, please contact Wendell Dilling at dilli1wl@cmich.edu or Gina Malczewski at reginamalczewski@gmail.com.
- August 7 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- August 20-24 – 254th ACS National Meeting & Exposition, Washington, DC. For more information, see <https://www.acs.org/content/acs/en/meetings/fall-2017.html>.
- September 11 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- October 2 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- October 21 (Save the Date) – 2017 Midland Section ACS Fall Scientific Meeting (FSM), Saginaw Valley State University (Curtis Hall). For more information, or to volunteer, please contact Peter Bai, 2017 FSM Chair, at PJBai@dow.com.

- November 6 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.
- December 4 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 715 679 159, phone number: 989-633-1166.

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