

THE MIDLAND CHEMIST

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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



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).

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.

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 5000 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.

Call for Nominations for 2015 Officer and Director Candidates

Chelsea Quinn, Chair, Nominations and Elections Committee

Here is your chance to become more involved in your local ACS section. The online ballot will soon be open and we need candidates to run for the following positions for 2015:

- Chair-elect (1-year term)
- Secretary (1-year term)
- Treasurer (1-year term)
- Chair, Nominations and Elections Committee (1-year term)
- Councilor (3-year term)
- Alternate Councilor (3-year term)
- Directors (3 open positions, 3-year terms)

If you are interested in running for any of these positions, or if you know of someone who might be interested, please contact Chelsea Quinn at chelsea.quinn@dowcorning.com or 989-496-1694. If you have any questions regarding the responsibilities of any of the positions, please contact the current officers or Chelsea Quinn, or you are welcome to visit the Midland Section ACS website at www.midlandacs.org. Our local section handbook also provides further details at [ACSMidlandSectionHandbook](#).

If you are not keen on running for a board position, there are still many other great areas and committees for you to serve. Open committee positions are listed below.

Membership	Technical Society Interface	Fall Scientific Meeting	Publicity
Midland Chemist (Editor)	Chemistry Olympiad	Corporate Agent	Long Range Planning

There are a variety of compelling reasons to take advantage of the chance to become involved as an officer, director, or committee leader of the Midland Section ACS: networking beyond your work-place, an opportunity to provide vision and voice to your local scientific community, and a chance to hone your interpersonal and leadership skills. Please consider getting involved with the Midland Section ACS.

Communicating Your Science Webinar and Networking Event – October 7
Wendy Flory, Women Chemists Committee

Speaking Simply

Communicating your science



Tuesday, October 7, 2014

- 6:00 pm ET **Networking**
- 7:00 pm ET **Webinar**
- 7:30 pm ET **Live Q&A**

Two Locations!!!

Midland:
Creative 360

Mt. Pleasant:
CMU Dow Bldg.
(follow the signs)

Speakers:

Douglas Dollemore,
ACS Office of Public Affairs

Darcy Gentleman,
ACS Office of Public Affairs



Brought to you by the Midland Section ACS Younger Chemists Committee AND the Women Chemists Committee
A Collaboration with ACS Younger Chemists Committee, ACS Office of Public Affairs, and ACS Webinars®

Women Chemists Committee (WCC) – Connecting STEM and American Girl – October 11 and 12
Jaime Curtis-Fisk, Chair, Midland WCC

Midland WCC is proud to announce that we will be partnering with the Alpha Kappa Alpha Sorority and the Midland Center for the Arts to integrate a STEM experience into the upcoming American Girl Fashion Show®. Three sessions of the event will take place on October 11 and 12 at the Midland Center for the Arts and are expected to draw in an attendance of 1,500 to 2,000. Girls participate in the event as models for American Girl character outfits and through this activity they learn the historical connection to each of the dolls and, more importantly, gain confidence and self-esteem from participating.



WCC has the unique opportunity of bridging fashion and science by working with the girls on hands-on activities while they are not on stage and reaching their entire families with activities in the lobby before and after the show. Our intent is to develop a program of activities related to the chemistry of art or fashion so that the girls and their families will experience that science is around them everywhere, even at a fashion show. We need plenty of volunteers to help generate ideas, plan the activities, prepare the demonstrations, and facilitate the program at the shows. If you would like more information on the fashion show, please visit <http://www.mcfta.org/event/american-girl/>. For questions on WCC involvement or volunteer options, please contact Jaime Curtis-Fisk at jlcurtisfisk@dow.com.

CERM 2014 Registration

Heather Juzwa, General Co-Chair, CERM 2014

The registration form for the CERM 2014 meeting (October 29-November 1, Pittsburgh, PA) is now available online at [CERM 2014 Registration Form](#). General information about anything you may wish to know about CERM 2014 can be found at www.acscerm2014.org. Thank you for your consideration, and we look forward to seeing you at CERM 2014!

Any questions or concerns should be addressed to Heather Juzwa, General Co-Chair, CERM 2014, via e-mail to hjuzwa@shimadzu.com or to her cell phone at 617-293-8279.

Outreach Begins Fall Frenzy

Gina Malczewski, Secretary / Outreach Group Leader

Although we kept busy over the summer, the return to school always means more activity for ACS Outreach. We have many in-school and extracurricular programs scheduled, so please check the information below and spread the word—we'd love to have you attend those you can!

The September 30 "Loco for Cocoa" was probably the last opportunity to see this program. It has been done at MCFTA, Bay City Central High School, Saginaw Career Complex, and Mt. Pleasant Sacred Heart Academy, and we are starting a new series on October 20 on Culinary Foams. The "Loco" presentation was given special mention in the feedback we received from National regarding our outstanding outreach programs.

In addition to these events, our science coaching season is starting. This is a program through National, that supports a teacher financially who pairs with a scientist consultant. We also have other programs scheduled in area classrooms.

When	Where	What
Oct. 1, 8, 15, 22, 29; Nov. 5	Creative 360, Midland 5:30 - 7 PM	Scientific Wonder and Artful Genius (SWAAG) program with Delta Possible Dream 6 th and 7 th graders; science themes paired with different art projects each week
Oct. 2, 9, 16	Creative 360, Midland 12:30 - 2 PM	SWAAG for seniors—FREE
Oct. 20	Saginaw Career Complex 6:30 PM	<i>“The Gas in Gastronomy—Culinary Foams”</i> with Chef Aaron Gaertner; FREE—cooking demos and samples
Nov. 1	Bay City Western High School 8 AM - 5 PM	Teacher workshop, open to K-12; FREE with many programs and give-aways, including free SCECHs

To volunteer or ask questions about any event, please contact Gina Malczewski at 989-631-4038 or reginamalczewski@gmail.com.

NGSS Teacher Workshop: *Conducting, Linking, and Supporting Sciences*
Gina Malczewski, Secretary / Outreach Group Leader

Saturday, November 1, 2014
8:00 AM - 5:00 PM
Bay City Western High School

This FREE conference, sponsored in part by an IPG grant from National ACS, will help K-12 teachers dig deeper into the Next Generation Science Standards (NGSS) using units developed by the Midland Section of the American Chemical Society. We are fortunate to have been joined in this effort by other collaborators: Bay City Schools, SVSU Math and Science Center, and Michigan Science Teachers Association.

We are looking forward to hosting as many as 120 teachers for a day of learning that will be translatable to their classroom, helpful for professional advancement, and useful as Michigan moves towards acceptance of the Next Generation Science Standards. Several four-hour hands-on workshops will be offered for teachers, as well as an option for a series of four, one-hour trainings on a wheel. Materials and ideas will be presented for participants to take back and implement in their classrooms immediately. A FREE lunch and several giveaways will be offered as well.

Course Offerings by ACS

Sci Tech - Next Generation Workshop: Part 1

This program covers six units, each with many activities that meet NGSS standards. Each activity is described with step-by-step procedures and explanations; ideas for enrichments and modifications are also provided.

Worksheets are supplied, along with references and supply sources. Topics covered are: observations and measurement, density, water, weather and climate, energy and the interface of science and technology.

Sci Tech - Next Generation Workshop: Part 2

This program covers five units, each with many activities that meet NGSS standards. Each activity is described with step-by-step procedures and explanations; ideas for enrichments and modifications are also provided. Worksheets are supplied, along with references and supply sources. Topics covered are: reactions, microbiology, polymers, waves, as well as art and the forces of nature.

Bringing Science to Life in the Classroom

This program offers 16 units of basic chemistry hands-on activities, covering subjects such as states of matter, acids and bases, nutritional chemistry, chemical reactions and chromatography. The workbook (provided) includes complete descriptions of activities, any applicable chemical equations, references, and worksheets with keys.

Additional Sessions Available

K-5 Wheel (One-Hour Sessions)

Engineering is Elementary—Engineering is Elementary (EiE) is a set of hands-on, engaging, project-based engineering activities that integrate literacy with Science Instruction. In this session, we will dig deeper into the units (which are available for checkout through the SVSU Math/Science Center). The unit “Attraction is Obvious” will be the focus of this session.

Bay Sail—BaySail is a non-profit environmental education organization operating two tall ship schooners with the mission of promoting environmental stewardship on the Great Lakes through shipboard education programs. BaySail’s half-day Science Under Sail environmental education programs onboard the Appledore IV help youth explore the freshwater ecology of the Saginaw Bay Watershed and Lake Erie. Come see why many teachers use this phenomenal field trip experience each and every year.

Chemistry Across Your Classroom—This workshop will provide teachers with a hands-on experiment based on crosscutting concepts to help integrate the Next Generation Science Standards into the classroom.

Family Engineering—Family Engineering is an information engineering education program that actively engages children and their families in fun, hands-on engineering activities. A family engineering kit will be shared with participants, as well as time to learn about and explore different engineering activities that will be fun for all!

Technology in the Science Classroom—Teachers do not have to be experts in a particular technology before they use it in their classroom. However, the technology must support the identified learning outcomes. We will explore some creative ways to integrate technology to motivate students and reach educational goals in the science classroom.

Consumers – EmPOWERed Kids app—EmPOWERed Kids is an application developed by Consumers Energy, engaging students to learn how energy is generated and travels to their home. The EmPOWERed Kids app is free and guides elementary school students through ideas that touch on their everyday lives, and it includes games and exercises to keep them connected. This session will model the app and highlight resources available to teachers.

Hartley Outdoor Education Center—The Hartley Outdoor Education Center was built to help students “climb to the top” in education through outdoor, hands-on learning programs. Through the years, we’ve accumulated a vast variety of services to offer Saginaw, Michigan school districts including camps, tours, traveling naturalists (special programs brought to you), farms, mini-trips (quick & unique field trips) and even virtual field trips. This session will highlight why many teachers use this phenomenal experience each and every year.

6-12 Wheel (One-Hour Sessions)

21st Century Science Teaching (parts 1 & 2)—Science teaching has changed in dramatic ways during the 21st Century. This session will examine ways to foster the use of technology, cooperative grouping, science demonstrations, and inquiry in your secondary science classroom. Participants will actively participate in various activities and then discuss the merit of each.

Science Notebooks—This session is our journey in helping our students to become more organized in our science class. We will explore our ideas with you of how to incorporate these notebooks in your class or subject. Topics to be covered will be: set up, storage and materials, ownership, inserts, notes & reflection pieces, and use.

Technology in the Science Classroom— See K-5 Wheel description.

Chemistry Across Your Classroom—See K-5 Wheel description.

Project-Based Learning—In project-based classrooms, learning begins with an entry document that introduces the end product students are expected to produce, and asks the driving question(s) that the project should answer. As students work and collaborate in groups, they generate more Need-to-Knows, which are added to the list. In this way, students and teachers share control of the course content until the project is complete.

Follow the Google Form link to register: <http://bit.ly/YFPiSs>. Participants MUST pre-register. Registration deadline is 10/24, or when sessions are full (30 participant limit per session). SCECHs available upon approval at NO cost to participant.

For more information, please contact Gina Malczewski: reginamalczewski@gmail.com.

Introducing ACS Sci-Mind Courses

Masha Petrova, MVP Consulting Solutions

The American Chemical Society has initiated a new series of interactive web-based courses called Sci-Mind. They are intended to train chemical professionals in areas of special interest. Current offerings include Separation Science and Chemical Analysis, Toxicology for the Scientist, and Biopolymers. These are custom-tailored sessions, designed to fit the learning needs of the students. They include instructional videos, articles, case studies and interactive live sessions with the ability to reach out to subject matter experts.

Sci-Mind is not about merely sitting through lectures from one teacher about a given subject, but rather to facilitate customized learning from a network of subject matter experts, interactive content, and practical tools to advance one’s knowledge. One of the subject matter experts for the upcoming Biopolymers course is a member of the Midland Section ACS, Patrick Smith of the Michigan Molecular Institute.

Please take a look at the promotional information from the ACS (<http://proed.acs.org/sci-mind-features/>) to see whether these courses are for you. By the way, the next cohort of the Biopolymers course is coming up fast, starting on October 13. Please see <http://proed.acs.org/products-services/sci-mind/biopolymers/> if you are interested in signing up for the Biopolymers course.

McMahon Helps with Cholera Project in West Africa

Niky House, Midland Daily News

Midland Chemist Editor's note: This article is being reprinted from the Tuesday, August 19, 2014 edition of the *Midland Daily News*, page A3.



Joan McMahon, lab manager for Raven Analytical, part of a Midland company known as QuadSil, stepped back onto American soil July 16 after having spent almost a month in West Africa.

“We are all proud of her; not everybody does what she does — goes where she goes,” said Vickie Blizzard, wife of one of the owners of QuadSil, John Blizzard. “She goes where most people don’t go.”

McMahon’s colleagues and their families said they were very thankful to have her back, as she left Sierra Leone, located northwest of Liberia, not long before the borders were closed due to the Ebola outbreak. “She made it out just in time,” John Blizzard said.

While her job duties in Michigan keep her busy managing two water laboratories and three staff members, conducting water testing and helping with research, in Sierra Leone, McMahon, a Midland resident, was busy educating people.

Along with teaching people how to test their water, one reason McMahon had traveled to Sierra Leone was to help out with the Cholera Project. West African Medical Missions and the Network of HIV Positives, or NETHIPS, are two organizations working together through the Cholera Project to reduce and hopefully eliminate preventable deaths from cholera and diarrheal disease. The groups accomplish this by educating the people about water treatment. The hope is that those people can, in turn, educate their counterparts about the water and about sanitation practices, to help eradicate these deaths.

“They live in tin shacks and don’t have access to good quality water,” McMahon said. “There is poor sanitation and nowhere for waste to go.” What were the existing sanitation system and other infrastructure were destroyed during the civil war, she said, leaving the people very little relief from the conditions.

Someone posted on the West African Medical Missions Facebook page on July 11, “Our new partnership with the Innovations Lab at Prince of Whales set up by MIT has proven to be a great experience for both the pupils and those teaching. It’s all about promoting creative thinking for our future leaders. When water testing becomes exciting you must be doing something right! Thank you, Joan McMahon.”

While McMahon’s compassion for the people of Sierra Leone is clear, the people grew affection for her as well. “Ask what they called her,” John Blizzard said. “They called her ‘Grandma Joan.’”

Shortly after retiring from Dow Corning, McMahon came on board as lab manager for Raven Analytical, part of QuadSil. McMahon studied “Biology, and I studied nursing before I retired from Dow Corning where I worked in toxicology for the majority of my 33 years there,” she said.

McMahon has also traveled to Guatemala as well as Haiti, helping at Three Angels Children’s Relief shortly after one of the devastating hurricanes hit there.

Two of QuadSil’s owners gave her a generous donation toward her trip to Sierra Leone, McMahon said, and the company also provided a number of water testing kits to help with the project.

“I was most impressed with the young African people, between 18 and 23 or 24, and how they wanted to share with their communities,” McMahon said.

QuadSil, which has been open for more than a decade, makes it a practice to give and to help. The group has spent time in Michigan and other states teaching students about science, and helping them get over “chemophobia,” John Blizzard said. They also teach kids how to test water.

The company helps with the Midland County Emergency Food Pantry Network as well, Robert McKellar, president and co-owner of QuadSil, said.

John Blizzard, vice president and co-owner, handles research and development, among other things at the company, and his son, John S. Blizzard, also an owner, serves as the acting secretary. Both John Blizzard and McKellar had retired from Dow Corning before beginning the company with two others all those years ago.

The owners were all in agreement that they wanted to continue to generate funds for all kinds of projects, such as their lab manager’s trip, to give back to the community and pay it forward.

McMahon’s colleagues and their families were elated to have her back, and pointed out, when a picture of her came around holding a baby, that the picture showed her true heartbeat. McMahon just smiled, happy to have contributed to helping and caring for people in areas of the world currently needing a lot of assistance and attention.

Call for Nominations for 2015 Esselen Award ***Mukund Chorghade, Chair, 2015 Esselen Award Committee***

The Northeastern Section of the American Chemical Society is pleased to invite nominations of worthy candidates for the Gustavus John Esselen Award for Chemistry in the Public Interest. This award recognizes chemists for outstanding achievement in scientific and technical work that contributes to the public well-being. The award consists of a \$5,000 prize and a medal of recognition. The presentation will take place at an award ceremony at Harvard University, followed by a formal address by the awardee. The tentative date for this ceremony is April 10, 2015.

The Esselen Award was established in 1987 to honor the memory of Gustavus John Esselen, a distinguished member of the Northeastern Section. The first awardees were F. Sherwood Rowland and Mario J. Molina, who subsequently received a Nobel Prize. Several other recipients of the Esselen Award have also been Nobel awardees.

Any field of chemistry or affiliation is appropriate, as long as the scientific work has been an important contribution to the public well-being, and its significant value to society has become apparent within the last five years. The deadline date for submitting 2015 Esselen Award nominations is October 15, 2014.

Further information is available at www.nesacs.org/awards_esselen.html. Additional questions can also be directed to Mukund Chorghade at chorghade@comcast.net or 508-651-7809, or to Karen Piper at piper281@verizon.net or 978-456-8622.

Mid-Tech Biobased Materials Commercialization Symposium – October 21
Midland Tomorrow and Omni Tech International, Ltd.

Tuesday, October 21, Great Hall Banquet & Convention Center, Valley Plaza Resort (5121 Bay City Rd., Midland); 8:30 AM–3:30 PM

The 2014 Mid-Tech Biobased Materials Commercialization Symposium, *Understanding the Biobased Landscape from Innovation to Commercialization*, is offered as a collaborative event between Midland Tomorrow and Omni Tech International, Ltd. This symposium will bring together bio-based Michigan companies and/or Michigan companies considering a strategy to “go green” for a day of symposia presentations and networking.

The conference cost is \$25 per person and includes lunch. You can register by phone (989-839-0340), or by e-mail (info@midlandtomorrow.org), or through either of the websites of Midland Tomorrow (www.midlandtomorrow.org) or Omni Tech International (www.omnitechintl.com).

For complete program details, please see [Mid-Tech Biobased Materials Program](#).

Call for Nominations for 2014 ACS Richards Medal
Sheila Hauck, Co-Chair of the 2014 Richards Medal Committee

I am writing to all of the ACS local sections on behalf of the ACS Richards Medal Committee to solicit nominations for the 2014 Theodore William Richards Medal Award for conspicuous achievement in any area of chemistry. The medal honors the U.S.'s first chemistry Nobel Laureate and is awarded every two years. The 42nd medal was presented to Professor Tobin J. Marks of Northwestern University in 2012.

Nomination packages consisting of a brief curriculum vitae for the nominee, and a clear and concise nomination letter outlining the “conspicuous achievements in chemistry” on which the nomination is based, should be submitted electronically as a single PDF file to the co-chairs of the 2014 ACS Richards Medal Committee, Rosina Georgiadis (rgeorgia@bu.edu) and Sheila Hauck (sheila.hauck@gmail.com).

Nominations must be received by October 31, 2014. The 2014 Richards Medal will be awarded on Thursday, March 5, 2015.

More information about the Richards Medal, including the list of all previous recipients, can be found at http://www.nesacs.org/awards_richards-medal.html.

2014 Michigan Green Chemistry and Engineering Conference – November 12

Jennifer Acevedo, Office of Environmental Assistance, Michigan Department of Environmental Quality

The Michigan Department of Environmental Quality and Michigan State University are hosting the 2014 Michigan Green Chemistry and Engineering Conference, otherwise known as the 6th “[GreenUp Conference](#),” on November 12 at the Kellogg Center in East Lansing. This year’s theme is *Cultivating Next Generation Solutions*. Green chemistry and engineering are all about designing, innovating, and manufacturing what’s next and developing less hazardous, more effective materials, processes, and products. Green chemistry and engineering can help businesses create new markets, reduce costs, increase safety, and gain a competitive edge.

The conference will offer an excellent opportunity for ACS Michigan local section members to network and learn about cutting edge technologies in green chemistry and engineering. Your members can participate by submitting a paper, applying for a Governor’s Award, securing a sponsorship, or attending. Contact Jennifer Acevedo at acevedoj@michigan.gov if you have any questions.

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.

In Past Issues of *The Midland Chemist*

Wendell L. Dilling, Director and Historian

50 Years Ago

In *The Technical Obsolescence Panic Button*, by J. E. Dunbar, Editor: “The possibility of some degree of technical obsolescence is always recognized by the professional researcher, and that is why he has acquired at an early date built-in working habits to prevent it. Perhaps the technical obsolescence panic button is more likely to be pushed by one who has left the fun of laboratory research.”

40 Years Ago

In *Midland Macromolecular Meeting – 4, Symposium on Molecular Basis of Transitions and Relaxations*, In Honor of Dr. R. F. Boyer, (Feb. 5-7, 1975), Invited Lectures: “Prof. G. Allen, The U. of Manchester, England, Phenomena & Methods; Prof. R. Porter, U. of Massachusetts, Motions in Liquid & Plastic Crystals; Prof. M. Takayanagi, Kyushu University, Japan, Motion in Crystalline Polymers; Prof. J. Lamb, The U. of Glasgow,

Scotland, Motions in Low Molecular Weight Fluids & Glasses; Prof. R. Simha, Case Western Reserve U., Motions in Amorphous Polymers; Dr. J. Heijboer, TNO, Delft, The Netherland, Definitive Subgroup Motions; Prof. I. M. Ward, U. of Leeds, England, Structure/Property Relationships; Prof. N. G. McCrum, Oxford U., England, Polyethylene: Detailed Interpretations of a Crystalline Polymer; Dr. R. F. Boyer, Dow Chemical Company, Midland, Michigan, Polystyrene: Detailed Interpretations of an Amorphous Polymer; Prof. R. H. Boyd, U. of Utah, Molecular Mechanics Calculations of the Energetics of Relaxations.”

30 Years Ago

In *ACS Midland Section Supports M³PEP*: “For the second consecutive year, the Midland Section of the American Chemical Society has been a participant in the Mid-Michigan Minority Pre-Engineering Program (M³PEP). M³PEP is a program designed to acquaint and encourage minority junior high students to explore career opportunities in chemistry and engineering. The participants are recommended by their school officials and selected based on certain criteria. Successful applicants live in the homes of “surrogate parents” during the week-long program, which combines hands-on experience, tours, and classes. Several Midland Section members served on planning committees and helped with various activities during the week. Anyone interested in becoming a surrogate parent or willing to discuss ACS activities or career opportunities should contact Bud Frasch (496-5364) or Allan Howard (636-3063).

20 Years Ago

In *In Memoriam*: “It is with sadness that we mark the passing of Joe Dunbar. On Saturday, September 10, 1994, Dr. Joseph E. Dunbar died in Midland. Joe arrived in Midland to work at Dow Chemical in 1956. He made his mark here both as a productive chemist and as an outstanding contributor to the Midland Section. During his 33 year career with Dow, Joe was granted 96 patents, and was widely recognized for his accomplishments. In 1964, Joe was the founding editor of this publication. He set a high standard for his successors to follow. Those early issues of **The Midland Chemist** carried Joe’s often controversial editorials. Joe’s intention was to challenge the members of the Midland Section to new ways of thinking. Joe also served (as) treasurer of the Midland Section. In 1990, Joe was presented the Midland Section Award for Outstanding Achievement and Promotion of the Chemical Sciences.”

10 Years Ago

In *Midland Section and MMTG Strike Gold at National Meeting* by Gretchen Kohl and Bob Howell, Councilors: “The ACS 228th Fall National Meeting was held in Philadelphia, the ‘City of Brotherly Love.’ Despite the city being the nation’s fifth largest, the ACS rarely holds its national meetings there, and we are both surprised that it isn’t a frequent choice. The Pennsylvania Convention Center is new and is located in the central city, very close to most of the hotels. It was very convenient to get to most of the sessions and committee events. We were very proud to represent the Section and all of the hard work our Section members contributed that led to *eight* nominations for ChemLuminary Awards. This is a new record for nominations. Many Kudos to Mike Owen, our 2003 Section Chair, for the quality writing and editing of our annual report and the award nominations that he submitted. We received recognition for all eight nominations with four ChemLuminary Awards and four Certificates of Excellence.”

Upcoming Dates, Events, and Other Updates

- October 7 (6:00 PM) – *Communicating Your Science* Webinar and Networking Event held in Midland at Creative 360, and in Mt. Pleasant at the Dow Science Building. Contact Wendy Flory for more information (WFlory@dow.com).

- October 11 (12:00 PM & 4:00 PM) – *Connecting STEM and American Girl*, Women Chemists Committee volunteer event, Midland Center for the Arts. For more information on the American Girl Fashion Show®, please visit <http://www.mcfta.org/event/american-girl/>. For questions on Women Chemists Committee involvement and volunteer opportunities related to this event, please contact Jaime Curtis-Fisk at jlcurtisfisk@dow.com.
- October 12 (2:00 PM) – *Connecting STEM and American Girl*, Women Chemists Committee volunteer event, Midland Center for the Arts. For more information on the American Girl Fashion Show®, please visit <http://www.mcfta.org/event/american-girl/>. For questions on Women Chemists Committee involvement and volunteer opportunities related to this event, please contact Jaime Curtis-Fisk at jlcurtisfisk@dow.com.
- October 15 – Deadline for submitting nominations for the 2015 Esselen Award for Chemistry in the Public Interest, sponsored by the Northeastern Section of the American Chemical Society. For more information, see www.nesacs.org/awards_esselen.html.
- October 20 (6:30 PM) – *“The Gas in Gastronomy—Culinary Foams”* at Saginaw Career Complex with Chef Aaron Gaertner. FREE event including cooking demos and food samples – open to all. Contact Gina Malczewski for more information (989-631-4038 or reginamalczewski@gmail.com).
- October 21 (8:30 AM – 3:30 PM) – Mid-Tech Biobased Materials Commercialization Symposium, *Understanding the Biobased Landscape from Innovation to Commercialization*, Great Hall Banquet & Convention Center, Valley Plaza Resort, 5121 Bay City Road, Midland. Cost is \$25 per person and includes lunch. For more information or to register, please see [Mid-Tech Biobased Materials Program](#).
- October 28 (evening event, save the date) – Women Chemists Committee “Networking Event and Seminar” with Carol Williams, Whiting Forest, Midland. For more information, please contact Beata Kilos at bakilos@dow.com.
- October 29 - November 1 – 45th ACS Central Regional Meeting (CERM 2014), Pittsburgh, PA. For more information, see www.acscerm2014.org.
- October 30 – Deadline for enrollment in the 2014-2015 ACS Science Coaches Program. For more information, or to sign up, see www.acs.org/sciencecoaches.
- October 31 – Deadline for submitting nominations for the 2014 ACS Richards Medal Award. For more information, see www.nesacs.org/awards_richards-medal.html. For questions, contact the Co-Chairs of the 2014 ACS Richards Medal Committee, Rosina Georgiadis at rgeorgia@bu.edu and Sheila Hauck at sheila.hauck@gmail.com.
- November 1 (8:00 AM – 5:00 PM) – Next Generation Science Standards (NGSS) Teacher Workshop: *Conducting, Linking, and Supporting Sciences* at Bay City Western High School. Contact Gina Malczewski for more information (989-631-4038 or reginamalczewski@gmail.com).
- November 3 (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#.
- November 12 (save the date) – 2014 Michigan Green Chemistry and Engineering Conference (the 6th “[GreenUp Conference](#)”), *Cultivating Next Generation Solutions*, Kellogg Center, Michigan State University, East Lansing. Contact Jennifer Acevedo at acevedoj@michigan.gov if you have any questions.
- December 1 (5:30 – 8:00 PM) – Midland Section ACS 4th Quarter Committee updates and dinner meeting. Venue to be determined. Contact Michelle Cummings (michelle.cummings@dowcorning.com) for questions.
- 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](#).

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