

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

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An Evening with Dr. Michael Barratt, NASA Astronaut, June 13
MSU St. Andrews

MICHIGAN STATE
UNIVERSITY

MSU St. Andrews

An Evening with Dr. Michael Barratt, NASA Astronaut



Educational and inspirational talk followed by a meet and greet.

June 13, 2018, 6:00 pm-7:00 pm

[Midland Center for the Arts](#)

Dr. Michael Barratt has participated in two space flights, including the 39th and final mission for Space Shuttle Discovery (March 26, 2009 to October 11, 2009) during which he performed two space walks. Completing 199 days in space, he landed on October 11, 2009.

Currently, Dr. Barratt serves in the International Space Station Operations and Integration branches to conduct research oriented toward mitigating the most prominent health and performance risks associated with human spaceflight.

Part of the 2018 MATRIX:MIDLAND Festival! Sponsored by MSU St. Andrews.

Please join us for this family event and register for **free** tickets.

[Register](#)

Michigan State University programs, activities and facilities are available to all without regard to race, color, gender, religion, national origin, political persuasion, sexual orientation, marital status, disability, height, weight, veteran status, age or familial status. Please inform us if you need any special accommodation for accessibility at (517) 432-4499.

Register for free tickets online at [Midland Center for the Arts](#).

Glass City Chemistry Conference (CERM 2018), June 14-16

Christina Bodurow, ACS District II Director

I'm just providing a quick update here on the June 2018 "CERM" meeting. As had been communicated previously, the "official" CERM meeting was cancelled due to lack of adequate preparation, but the brave Toledo Section leaders have stepped in and made lemonade out of some lemons that they were handed. They will be hosting a "Glass City Chemistry Conference" in its place. The details are outlined below.

The Glass City Chemistry Conference (CERM 2018) is scheduled for June 14-16, 2018, on the University of Toledo campus. The conference starts on Thursday evening, June 14, with a social and dinner, 5:30 – 10:00 PM. A keynote is also planned.

Friday, June 15, will offer a full day of oral presentations and workshops, including programming for undergraduate and graduate students, as well as a student social in the evening. Posters will be available all day on Friday, with authors present from 5:30 – 7:00 PM. Some of the divisions that will be hosting sessions include Inorganic Chemistry, Organic Chemistry, Biochemistry, Nanochemistry, and Chemical Education.

Saturday, June 16, is Teacher's Day, from 8:30 AM – 2:30 PM, and will include oral presentations and workshops.

The abstract submission portal and the early bird registration portal are now both available online at <https://www.acs.org/content/acs/en/meetings/regional/2018-gcc.html>

Editor's note: abstract submission is now closed; registration information and a preliminary event agenda are available at the web address.

Nearby hotels include: (1) Radisson on the University of Toledo Medical Campus, (2) Holiday Inn Express and Suites Toledo West at I-475 and Secor Road, Toledo, (3) Hampton Inn and Suites Toledo/Westgate at I-475 and Secor Road, Toledo, and (4) Red Roof Inn Toledo-University at I-475 and Secor Road, Toledo.

I would like to heap loads of praise on Brenda Snyder, Edith Kippenhan, Robin Preston, and Starleeta Gaddis-Parker for helping to navigate the twists and turns to support this meeting. I will be attending, and if anyone is in the Toledo area in mid-June, please do join us!

2018 Midland Section ACS Spring Awards Banquet

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

Dateline: Wednesday, May 2nd, 2012. For the 27th year, the Midland Section gathered to honor the best and brightest in the chemical sciences at the Great Hall in Midland. After a tasty chicken dinner and a thoughtful invocation by Patrick Smith, our guest speaker, Dr. Robert Y. Ofoli (Chemical Engineering and Material Science, Michigan State University) presented an ardent talk on “STEM Research and Education: Some Lessons from Mother Nature”.

Midland Section Chair-Elect Amanda Palumbo opened the awards portion of the evening by acknowledging the following people who received recognition at the ACS national level:

Michelle Rivard - National Outstanding Chemical Technician

Beata Kilos-Reaume - ACS Early Career Fellow of the Industrial & Engineering Chemical Division

Thomas Lane - Henry F. Whalen Award for Excellence in Business Development & Management in a Chemical Enterprise

Michael Tulchinsky - ACS Local Section Outreach Volunteer



Michael Tulchinsky, Chair of the Midland Section ACS Chemistry Olympiad, presented students from local high schools with certificates and honor cords for their outstanding participation in the Chemistry Olympiad. A more detailed article on the Chemistry Olympiad can be found in this issue of *The Midland Chemist*.

The Midland Section has, under its jurisdiction, approximately 45 high schools. Each year, the chemistry department from each school is asked to nominate one student that they feel is an Outstanding High School Chemistry student. Listed, below, are this year's recipients. To each one, I grant a virtual pipette, the lightsaber of the lab, that they may go forth with courage and fire so to conquer the remaining mysteries of the sciences...and I gave them each a packet of “Funky Flames” to make that fire colorful.

Miranda Robles	All Saints High School	Nathan Miller	Freeland High School
Chloe Thompson	Alma High School	Shiva Sreeram	H. H. Dow High School
Tyrell Patman	Arthur Hill High School	Todd Cnudde	John Glenn High School
Morgan Leppke	Bay-Arenac High School	Caleb Whittaker	John Glenn High School
Mason Foley	Bay City Western High School	Ashtyn Hescott	Merrill High School
Tyler Smith	Bay City Western Middle School	Ethan Bruce	Midland High School
Travis Cody	Birch Run High School	Lingxiao Guan	Mt. Pleasant High School
Isabelle Richardson	Breckenridge High School	Joshua Lynch	Sacred Heart Academy
Hannah Billmeier	Bridgeport High School	Bhanu Teja Mamillapalli	Saginaw Arts & Sciences Academy
Elianna R. Gustincic	Bullock Creek High School	Haley Hegenauer	Shepherd High School
Kaitlyn Kunselman	Calvary Baptist Academy	Braiden Pepe	St. Charles High School
Kierstin Launstein	Carrollton High School	Allyssa Roberson	St. Louis High School
Nick Kasik	Chesaning Union High School	Amber Baase	Swan Valley High School
Samantha Kroll	Coleman High School		



Additionally, there are five colleges/universities in our area and each department selects a chemistry and biochemistry student to be honored. Each one of these outstanding individuals has persevered...resisting the temptation to change their major to business after the first organic chem course, embracing being periodically nerdy, and not drinking water when studying...because they know water decreases concentration.

Chemistry:

<i>Andrew Rajewski</i>	<i>Alma College</i>
<i>Sophie Bedford</i>	<i>Central Michigan University</i>
<i>Cameron Robert Reid</i>	<i>Delta College</i>
<i>Katie Kwiatkowski</i>	<i>Saginaw Valley State University</i>

Biochemistry:

<i>Samantha Lempke</i>	<i>Central Michigan University</i>
<i>Noah Danielson</i>	<i>Central Michigan University</i>
<i>Andrea Nikolai</i>	<i>Saginaw Valley State University</i>
<i>Bradley Hunt</i>	<i>Saginaw Valley State University</i>



Teachers are some of the most impactful people in society. They encourage, support, and cultivate the curiosity that will sustain our industry. They tell us we have potential and show us that – not by throwing us off the roof (physics joke), but, by being that ever-present voice saying, “Yes, you can!”



The American Association of Chemistry Teachers (AACT) is a community of passionate teachers of chemistry who share strategies, find support, ask questions, and overcome everyday classroom challenges. They selected Rebecca Field from Kolb Elementary in Bay City as the AACT Elementary School Teacher of the Year! Rebecca teaches 5th grade and in addition to chemistry, she also teaches biology, earth science, environmental science, engineering, and physics! Her passion for teaching and learning is reflected in the success of her students.

The Midland Section ACS award for Outstanding Achievement in Elementary School Science Teaching selected Suzanne Billette of Kolb Elementary. Suzanne inspires her students to engage in responsible learning and their excitement “oozes” out of her classroom! As the ACS/Dow STEM Ambassador assigned to Mrs. Billette’s class, I am amazed at the variety of approaches she utilizes to engage each student so they gain an inherent understanding of scientific concepts.

Jason Brown of Mt. Pleasant High School is the recipient of the ACS Midland Section Outstanding Achievement in High School Chemistry Teaching award. Jason does not limit his accessibility to the students in his district, but is open to coaching students from other counties, sharing his innovative teaching strategies to support the success of many students.



The award for Science Education Volunteer went to Wendell Dilling. Wendell has been volunteering for over 20 years at Central Michigan University, assisting students with research projects, advisor for the ACS Project SEED, organizing organic chemistry discussion groups, and funding several scholarships that benefit the greater chemistry community. Wendell is also a constant in the Midland Local section, currently serving as section historian and advisor to the activities being planned for the 2019 CERM and section 100th anniversary celebrations.

Gina Malczewski has been called the “energizer bunny” of the Midland Section. She has been section chair (twice, as well as held several other section positions), museum exhibition leader, coordinator for lecture programs, and is currently serving on the Committee on Community Activities at the national ACS. But, mostly she is known for her Kids and Chemistry outreach programs. “Bringing Science to Life in the Classroom”, Earth Day Outreach, Science Day Outreach at the Pittcon Conference, Kids Day at the Mall, SciFest, National Chemistry Week programs, SWAAG for Delta College’s Impossible Dream program, teaching in Guatemala...the list goes on and on. As a volunteer arranging demonstrations at several of the schools in our area and afterschool programs, Gina has been spreading her passion for chemistry throughout the Great Lakes Bay Region. She continually seeks funding to expand her programs and refines her experiments, rubrics, and protocols for all who show a desire to share her love of chemistry. There has *never* been a more deserving person, and for this, Gina is the 2018 recipient of the Midland Section ACS award for Outstanding Service to the American Chemical Society.



Technologists are the backbone of our science labs and are known for their problem-solving skills. Joseph Harris is, unquestionably, a problem solver and certainly deserving of the Outstanding Chemical Technician award. His dedication to his craft has awarded him the toughest polymer microscopy projects because he delivers results to his clients and accelerates business success. His skills have allowed project teams to gain a deeper understanding of rheology/morphology/performance relationships in complex systems. Along with his unparalleled analytical skills, Joe mentors, trains, serves as tool owner for several high-profile instruments, leverages his expertise in safety, and continues to seek and develop new skill sets to be versatile in the ever-challenging world of analytical sciences. We sweetened the pot with a knitted lab rat in homage to his biology background. Welcome to the chemistry dark side, Joe!



The local section also recognizes those in the community that go above and beyond in support of STEM initiatives. This years awardees are:



Dorian Phelps - In recognition of her tireless advocacy on behalf of those facing challenges reaching their potential as Possible Dream and Youth Development Coordinator at Delta College.

John Blizzard - For implementation of alternative education chemistry programs, lab ware and instrumentation refurbishing initiatives, and demonstrating continual support of youth STEM strategies.

Tim Drier - For utilizing experience and skill to artfully create a variety of glass elements for the

exclusive use of the Midland Section.

Art Ferruzzi - For countless hours of volunteer work engineering STEM initiatives and chemistry demonstrations for local members of Boy Scouts of America and Girl Scouts of the USA.



To show appreciation for being a member of the American Chemical Society for over fifty decades, we present those stalwart individuals with framed certificates celebrating their membership.

50 Years

Stacy Daniels

60 Years

Wendell Dilling
Jacob Eichhorn
Ora Flaningam
James Hahn
Rudolf Salinger

76 Years

Charles Raley, Jr.
John Schick

77 Years

Don McCollister



As section chair, I take advantage of the position to recognize individual(s) who I feel have contributed their time and talents outside the description of any other award we offer. Something as unique as they are. This year, Tom Lane (chemist extraordinaire and accomplished photographer) was presented with the "Through a Different Lens" award for his ever-present guidance, calm reserve, and his unique perspective that can only come from his passion for chemistry, the related sciences, and, for the people who support those endeavors. Through the lenses of history, knowledge, and creativity, the perspective Tom is able to offer to the industry, the Section, and to individuals, is invaluable and greatly appreciated more than he will ever realize. He is our "go to" guy!

Next year is a special year for the Midland Section as we are hosting the 50th Central Regional Meeting (CERM), and we are celebrating our 100th Midland Section ACS Anniversary. There are lots of outstanding special events planned so watch this publication, like our page on Facebook, and join us next year as we honor those who have done so much for chemistry and the related sciences!



Chemistry Students Hope for Spot at International Competition

Michael Tulchinsky, Chemistry Olympiad Chair, Midland Section ACS

Nine high school students from Bay, Isabella, Midland, and Saginaw counties participated in the National Exam of the 2018 U.S. National Chemistry Olympiad (USNCO) to qualify for the Study Camp, a staging ground to select the team for the International Chemistry Olympiad (IChO). The students were chosen from 181 candidates who took the local exam. These nine outstanding chemistry students were recognized and received awards at the American Chemical Society (ACS) Midland Section Annual Recognition Banquet on May 2nd: David Lin and Kevin Cheng from H. H. Dow High School, chemistry teacher Caeli Loris; Joshua Lang from Midland High School, chemistry teacher Jeffrey Yoder; Nickolas DeMattei and Lingxiao Guan from Mt. Pleasant High School, chemistry teacher Jason Brown; Thane Deming and Trenton McLean from Western High School; Benjamin Schall from the Saginaw Arts and Sciences Academy, chemistry teacher Dr. David Allan; Yifan Jiang from John Glenn High School, chemistry teacher Sandra Schafer. Ethan Bruce from Midland High School received recognition for the best score among all 181 local exam participants but he did not participate in the national exam this year.



From left to right: David Lin, Yifan Jiang, Kevin Cheng, Trenton McLean, Ethan Bruce, Lingxiao Guan, Nickolas DeMattei, Thane Deming, Benjamin Schall, and Joshua Lang.

Overall, about 1,000 high school chemistry students across the country took the qualifying national exam in 2018. Twenty students will be invited for training at the Chemistry Olympiad Study Camp to be held at the U.S. Air Force Academy in Colorado in June. The top four will represent the U.S. in the 50th IChO in the Czech Republic and Slovakia on July 19-29, 2018.

The IChOs began in 1968 in Eastern Europe as a competition among chemistry students from Czechoslovakia, Hungary, and Poland. The number of participating students and countries quickly increased, reaching 293 students from 75 countries in 2017. The U.S. joined in 1984. The U.S. team performed exceptionally well in 2017, getting four gold medals in the 49th IChO in Nakhon Pathom, Thailand.

The local and national exams were carried out under the auspices of the Midland Section of the ACS. A STEM volunteer from Dow Chemical, Dr. Michael Tulchinsky, coordinated the activities. Dr. Michael Coote, a faculty member in the Department of Chemistry of Saginaw Valley State University, helped to organize the national exam which included two written tests and a lab practical. Dr. Daniel Grohol and Dr. Xiangyi Zhang of Dow Chemical volunteered as proctors for the national exam where Dr. Daniel Grohol also gave a presentation on the Czech Republic and Slovakia culture.

Midland Section ACS Receives 11 ChemLuminary Nominations for 2017 Programs

Gina Malczewski and Anne Kelly-Rowley, Midland Section ACS

From the 20 award categories that the Section self-nominated on our 2017 Annual Report, National ACS has selected 11 programs as finalists and these are listed below. The 11th nomination is for Outstanding Section Performance in the Medium Size Category, which considers the overall breadth and effectiveness of local activities. These nominations represent many volunteer hours, interactions with diverse community groups, and successful engagement on scientific topics at various levels.

Winners will be announced and awards presented at the 256th ACS National Meeting in Boston, MA on Tuesday, August 21, 2018. The presentations will include awards given by 17 national committees of the American Chemical Society.

Whatever the outcome of the selection process, we are extremely grateful for the efforts of our volunteers and collaborators, and proud of our community impact.

Award Nomination	The Program(s) Submitted
Most Creative NCW Celebration Using the Yearly Theme	"Rock"-related activities at the Delta STEM Festival, and hands-on programs with Scouts, Bullock Creek Middle Schoolers, and Delta Possible Dream students during Scientific Wonder and Artful Genius sessions
Global Engagement Award for Local Sections	Hands-on teacher clinics and workshops in Guatemala (Santa Avelina and University of Guatemala del Valle)
Creative & Innovative Use of the CCED Theme	Three-venue Earth Day at Chippewa Nature Center, Creative 360, and Midland Recycling Center, with speaker and garden tour
Best Activity or Program Stimulating Member Involvement	Four events: (a) ACS Day at the Fair, (b) "Mid-Michigan Scientist" Lecture by Professor Angela Wilson; (c) Awards Ceremony Keynote Speech by LaTrea Garrison; (d) ACS Midland/Dow YRC Jointly-sponsored Seminar by Mark Jones
Local Section Partnership Award	Great lakes Bay STEM Festival at Delta College: Partnership between Dow Chemical, Michigan Tech Mind Trekkers, Delta College, Midland Section ACS, Nexteer, & area High School Robotics Program & many other local companies and organizations

Most Innovative New Activity or Program	MMTG four-day summer camp at Delta
Outstanding Continuing Public Relations Program of a Local Section	The Midland Section Annual Spring Awards Banquet
Best Event or Activity Organized by, or Benefiting, the Applied Chemical Technology Professional Community	MMTG social activities, and Lunch & Learn Programs that offer networking and professional development opportunities
Outstanding High School Student Program Award	Hands-on Mixtures and Emulsions Labs at Bay City High Schools and at Midland High
Outstanding Kids and Chemistry Award	Over 60 community and school programs, planning for CERM 2019 and the summer garden; over 11,000 people involved as attendees
Outstanding Section Performance in the Medium Size Category	Considers the overall breadth and effectiveness of all local section activities

100 Years of Midland ACS—Planning Good Times in Support of Great Science

Gina Malczewski, 100th Anniversary Committee, Midland Section ACS

After about 29 months of effort on our centennial exhibit, we are beginning to get down to the business of composing content and prioritizing the “must haves” to meet our goals of informing and engaging the community relative to the scientific contributions of ACS members locally and globally, and the impact ACS has had on our community growth.

We are pleased to be starting a partnership with the CMU Museum Studies Program, which trains students in exhibit development; these students rarely are able to work on a science-related theme, so the experience should provide a special opportunity for them. Funding will determine the extent to which we can engage the students (and for what time period)—as with many other aspects of the exhibit, funding and community involvement are key. We are waiting to hear about a number of local grants, but in the meantime we are moving forward with plans for fundraisers.

At least one event for fun (and fund-raising) is planned for this summer, likely in late June or early July. We anticipate offering silent auctions along with musical entertainment. We will be publicizing this as soon as a venue and date have been confirmed. We would like to offer **ACS member-made artworks** at the auction; if you are interested in donating a piece, please contact us. We expect to offer framing options as part of each bid, as appropriate. All profits will go toward the exhibit.

Reminder: There are still matching funds available for donations to our “Midland Historical Project Fund” at the Midland Area Community Foundation; see the description at: <https://www.midlandfoundation.org/fund-list/2017/12/13/midland-acshistorical-project-fund> and give on-line right from that page.

More information to come—and contact us if you have any artifacts or old photos to share: gretchen.kohl@att.net or reginamalczewski@gmail.com.

A Busy Year of Chemistry 1 Activity with Bay City (and Midland) Public Schools

Gina Malczewski, Outreach/Kids and Chemistry, Midland Section ACS

Midland ACS Outreach just completed a school year of visits requested by Bay City Public School “Stem Connector” Connie Kennedy. Starting in October of 2017, Gina Malczewski, with help from Dave Stickles, Ronda Grosse, and Michelle Rivard, made nine visits to Bay City Schools (Handy and Bay City Western Middle schools, as well as Central and Bay City Western High Schools) to lead hands-on programs on the topic of “Mixtures and Emulsions”. The goal was to reinforce curriculum concepts and show the application of Chemistry to “real life”, so 55 or 70 minute periods were used to discuss topics that included hydrophobicity, surfactants, melting points, occlusivity, and emulsions. Connie’s intent was to involve all Chemistry 1 students, rather than allowing some classes to experience enrichment while others did not. Three classes were also presented at Midland High School with help from Nali Kogulan.

Students made lip balm, tested emulsions to determine if they were oil- or water-based, examined potential food ingredient emulsifiers, and/or made a simple lotion, depending on period length. Some of the supplies were donated by Dow Performance Silicones (formerly Dow Corning) and grants from the Midland, Bay, and Saginaw Foundations provided funds. The programs were developed by Midland ACS, and documented teacher feedback was used to modify content for more successful student engagement over the course of the school year. Over 800 students were involved.

Our efforts recently received publicity on the Bay City Public Schools Facebook page at https://m.facebook.com/story.php?story_fbid=610601132640969&id=383757428658675; we appreciate the opportunity to be part of the effort to train, engage, and recruit new chemists!




Making lip balm at Central High School
Photo courtesy of Dave Stickles

Call for Abstracts for 2018 Fall Scientific Meeting

Eve Suthiwangcharoen and Jennifer Larimer, 2018 Fall Scientific Meeting Committee Co-Chairs, Midland Section ACS

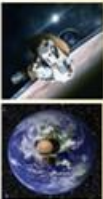
American Chemical Society Midland Chapter invite you to join us in:




2018 FALL SCIENTIFIC MEETING

Chemistry is Out of This World

Saturday October 13, 2018 | Curtiss Hall, SVSU



Keynote Speaker Highlight
Dr. Allison Steiner, University of Michigan will present on
"Atmospheric Chemistry and the Biosphere: Natural sources of volatile organic compounds and their fate in the atmosphere."



Expanded oral presentation sessions and poster session!

Deadline for Registration: 9/21/18 <http://www.midlandacs.org/fall-scientific-meeting/>
Deadline for abstracts: 9/16/18 ACSmidland2018@gmail.com

The event is sponsored by ACS Midland Chapter and SVSU Chemistry Club.

Additional Featured Speakers:

Dr. Ted Bergin – University of Michigan, Astronomy

Dr. Margaret Wooldridge – University of Michigan, Aerospace Engineering

Dr. Marcos Dantus, MSU, Chemistry Department

Chris Windiate – Dow Chemical, TS&D Transportation

Deadline for Registration: September 21, 2018 (<http://www.midlandacs.org/fall-scientific-meeting/>)

Deadline for abstracts: September 16, 2018

- Please submit the abstract to ACSmidland2018@gmail.com for both poster & oral presentations
- Please use the attached template (see next page) to format your abstract
- Oral presentations will be 20 min long with 10 min Q&A
- Posters have suggested dimensions of 48" x 36"
- Strict adherence to the conference theme is not a requirement!

Event cost: FREE for all attendees!! The only cost associated with the conference is a \$10 charge to cover lunch (if you plan to have lunch at SVSU). The first 100 students who register for the event will get free lunch!

Questions: if you have additional questions, please contact us at ACSmidland2018@gmail.com

ACS Fall Scientific Meeting Abstract Submission Template

Abstract Title:

Presentation Type (Oral/Poster):

Presenter Name(s):

Presenter Organization/Department:

Abstract (300 words maximum):

Please complete the form and email to ACSmidland2018@gmail.com

2019 ACS Central Regional Meeting – Save the Date
2019 ACS CERM Steering Committee, Midland Section ACS

2019 ACS CENTRAL REGIONAL
CHEMISTRY
MEETING JUNE 4-8, 2019
ACSCERM2019.ORG THE H HOTEL • MIDLAND • MI

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AMERICAN
CHEMICAL
SOCIETY

*In celebration of the 50th Central Regional Meeting of ACS
and 100th anniversary of the Midland ACS section*

YOU ARE INVITED TO EXPLORE

Strong, Diverse, High Profile TECHNICAL PROGRAM:

- World-class event themed **MOLECULES TO MATERIALS**
- Internationally recognized plenary speakers
- Honoring local historical figures in chemistry

Stimulating, Focused, Effective EDUCATIONAL INITIATIVES:

- High-impact educational tools for teachers and students
- Special hands-on, interactive experiences

Unique, Exciting, Multi-Faceted COMMUNITY OUTREACH:

- Public participation in the learning experience:
CHEMISTRY IN EVERYDAY LIFE
- Nurturing interest in and promoting the value of science


Craig Hawker
UCSB


A.N. Sreeram
Dow


Melanie Sanford
University of Michigan


Tobin Marks
Northwestern



LEARN FROM THE BEST AND BRIGHTEST MINDS IN CHEMISTRY

In Past Issues of *The Midland Chemist*

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

50 Years Ago, *The Midland Chemist* 1968, 5, No. 2 (May), 2.

In *A Remedy for Waning Meeting Attendance* by J. E. Dunbar, Editor: "In the last issue of the *Midland Chemist* Chairman Rausch emphasized the unfortunate fact that the Midland Section ranks 150th in average percent attendance at the monthly meetings. As he pointed out, the great majority of members of this section have ample opportunity to attend technical lectures given in their respective industrial organizations by colleagues, visiting lecturers and consultants. It thus takes a rather high energy of activation to get the members out after dinner to hear just another technical lecture. (Dinner meetings were going to be a solution to this. What happened to them?)

The real solution to the problem, we believe, is essentially to abandon technical lectures, at least of a specific nature, and to select general topics of wide interest. Topics relating to such things as the chemist's impact on the national welfare or the "technetronic society" would draw larger audiences. The subject of chemists' salaries would likely leave "standing room only" in 47 Building auditorium."

40 Years Ago, *The Midland Chemist* 1978, 15, No. 5, 57.

In *Chairman's Corner* by Chris Goralski: Many members of the Midland Section have asked me what they get for their \$45.00 national ACS dues. Articles in the *Midland Chemist* have dealt with this topic in the past, and this issue continues this discussion. I would like to use this column to discuss a very important service provided by the Midland Section to its members in the form of the Program Series.

The Program Committee, chaired by Wes Bonds, has done an outstanding job of providing informative and thought-provoking subject matter. The programs are presented in the evening (8:00 p.m.), with free refreshments preceding the presentation, and are held in the informal atmosphere of a local restaurant.

The last two programs were particularly outstanding, and a brief description of both of them should prove of interest to those of you who did not attend. In March, we heard from Dr. Edward Walsh, from Eastman Kodak, who gave a very informative talk on the theory and chemistry of color photography. In April, we heard a very thought-provoking talk from Mr. Mac Pruitt, Director of Research and Vice President, The Dow Chemical Company, on the many challenges faced by research and development now and in the next few years to come."

30 Years Ago, *The Midland Chemist* 1988, 25, No. 4, 8.

In *Midland's Foundations – Their Impact on Research and Education* by M. Gene Arnold: "The Midland area is fortunate in having a number of Foundations, both private and public, which are concerned with the quality of life for the people of the area. Many beautiful buildings, institutes and recreational facilities are visual evidence of the positive impact on our lives of the various local Foundations including the Herbert H. and Grace A. Dow Foundation, the Elsa U. Pardee Foundation, the Charles J. Strosacker Foundation, the Allen Foundation, the Rollin M. Gerstacker Foundation, the Whiting Foundation and the Midland Foundation.

One aspect of Foundation supports that perhaps is not as well known or as visible as buildings and recreational facilities is the support given to research and education. For example, the Pardee Foundation, which was established in 1944 had a one million trust fund 'for the promotion of the control and cure of cancer.' The fund was to be used to support research in the field of cancer. In addition to its grants to prestigious cancer research institutions around the country the Foundation also funds local cancer treatment committees in Midland and Brazosport, Texas, which in turn are able to help defray treatment costs for financially burdened families. It's interesting to note that the original trust was for one million dollars while in 1986 nearly one and a half million dollars was given in grants."

20 Years Ago, *The Midland Chemist* 1998, 35, No. 3, 12.

In *Awards Abound for Science Education Excellence* by Gretchen Kohl: "The Section held its Annual Science Education recognition dinner on Thursday, April 23rd, at the Dow Chemical Company's 47 Building Atrium. About 100 people attended the event, which honored area students, teachers and outreach volunteers in science excellence.

Leslie Hersch, from Delta College, presented the U.S. National Chemistry Olympiad (awards) to the outstanding students who scored the highest in the first round of the national exam from their high schools. These students were Kimberly Skinner and David Wecker, from Midland High School; David Kurtz and Chris Deline, from H.H. Dow High School, in Midland; Jason Ford and Jonathan Lee, from Saginaw's Heritage High School; and Gregory McKenna and Jon Markey, from Nouvel Catholic Central High School, in Saginaw. Continuing with excellence at the high school level, Mary Fredell, a chemistry teacher at H.H. Dow High School, presented the Section's Award for Outstanding High School Chemistry Student to David Kurtz, who was also a Chemistry Olympiad award winner from H.H. Dow High."

Added note: David Kurtz attended the study camp for the US Chemistry Olympiad team in 1999 as one of the top 20 students in the US but was not selected for the four-person US team for the international competition. After moving from Midland to Idaho Falls, Idaho (Skyline High School) he was selected for the US team in 2000 and scored the highest of the 216 participants in the 32nd International Chemistry Olympiad competition in Copenhagen, Denmark. He is now a cancer researcher at Stanford University (see https://med.stanford.edu/content/dam/sm/arts/documents/arts_students/CV_kurtz.pdf).

10 Years Ago, *The Midland Chemist* 2008, 45, No. 3, 1.

In *Chair Column, Midland Section: "Busyness" as Usual* by Dorie Yontz, Chair, ACS Midland Section: "The Midland Section has been very busy since the last newsletter! I'd like to take the opportunity to briefly summarize our activities and thank our member volunteers.

Our Science Literacy crew was invited to attend PITCON to hold a training session for teachers from the New Orleans area. The session covered 16 hands-on experiments, taught to Louisiana and National teaching standards, and reached 25 teachers. I'd like to extend a very big thank you to John Blizzard, Angelo Cassar, Gretchen Kohl, and Gina Malczewski for taking on such a significant effort. They obviously had fun, but this program, without a doubt, required a lot of hard work and dedication, not to mention a week of their lives in service to the community, to science education, and to the Midland Section."

Upcoming Dates, Events, and Other Updates

- June 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 June 2018](#), meeting number/access code: 719 144 397, phone number: 989-633-1166.
- June 13 (6:00 – 7:00 PM) – *An Evening with Dr. Michael Barratt, NASA Astronaut*. Presented at the Midland Center for the Arts; sponsored by MSU St. Andrews. Register for free tickets online at [Midland Center for the Arts](#). For additional details, see flyer in this newsletter.
- June 14-16 – Glass City Chemistry Conference (CERM 2018), University of Toledo, OH. For more information, see <https://www.acs.org/content/acs/en/meetings/regional/2018-gcc.html>.
- August 6 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- August 19 – 23 – 256th ACS National Meeting & Exposition, Boston, MA. For more information, see <https://global.acs.org/events/256th-acn-national-meeting-exposition/>.
- September 10 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.

- September 16 – **Deadline for submission of abstracts for the Midland Section ACS 2018 Fall Scientific Meeting.** Please submit a title and 300-word abstract to ACSmidland2018@gmail.com. Please see flyer and abstract template in this newsletter. For any questions, please contact Luqing Xi at lqi3@dow.com.
- September 21 – **Deadline for 2018 Fall Scientific Meeting attendance preregistration.** Please follow the SignUpGenius link at <http://www.midlandacs.org>. For any questions, please contact Luqing Xi at lqi3@dow.com.
- October 1 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- October 13 (Save the Date) – Midland Section ACS 2018 Fall Scientific Meeting, Curtiss Hall, Saginaw Valley State University. Meeting theme: *Chemistry Is Out of this World*. The deadline for submission of abstracts is September 16; please submit a title and 300-word abstract to ACSmidland2018@gmail.com. The deadline for 2018 Fall Scientific Meeting attendance preregistration is September 21; please follow the SignUpGenius link at <http://www.midlandacs.org>. For any questions, please contact Luqing Xi at lqi3@dow.com.
- November 5 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- December 3 (7:00 – 8:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection (TBD), phone number: 989-633-1166.
- June 4-8, 2019 (Save the Date) – 2019 ACS Central Regional Meeting (CERM), The H Hotel, Midland, MI. Celebrating the 50th Central Regional Meeting of ACS and the 100th anniversary of the Midland Section of the ACS. Abstract submission will open in December 2018. Please watch for information at <https://acscerm2019.org/>.

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