

THE MIDLAND CHEMIST

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From the Chair

Our World and Welcome to It

August, here we come. While this is the hottest part of the year around here, which usually means: get in your last days of summer swelter, because after this, the weather cools down and the activities pick up. Which, in fact, is just what is happening around the Midland ACS!

Let's take a look around the corner—just a little heads up so you can be ready for it when it gets here.

Of course, the National ACS meeting will be happening in Denver, Colorado, where we will be represented in so many ways. One way, is that members of the Midland Section, Connie Murphy and Tom Lane, will be honored with ACS Fellows Awards. Connie was nominated by I&EC and Tom by the Section. Way to go, folks! Our heartiest congratulations go to both of them. Another way we will be involved is with the ChemLuminary awards, for which we have been nominated for three—the results of the selection process will be unveiled at the meeting. So we go on with great hope and expectations.

Coming up around the corner—

and it is a corner that will be here before you know it—is October 22, 2011, the Fall Scientific Meeting, to be held at Alma College, in Alma Michigan. Alma is only about 40 miles from Midland, so it really isn't that far. Make your plans now.

Just a thought or two about a previous event the evening of June 6, 2011 in which the Midland ACS hosted two speakers on the topic of Global Warming. It was a great event; there were over 150 people who attended. The presentations were both remarkable in their intensity and I don't think anybody went away wondering what was said.

Let me close by repeating again what was in the previous issues...

Each of you has a tremendous possibility here, to get involved, to be involved, to stay involved. So why don't you read the rest of this issue, find the



John (Pat) Cannady

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Calendar for August/Sept.

Aug. 16	ACS Day at the Fair
Aug. 22	ACS Board Meeting, MCFTA Board Room, 7 pm
Aug. 28	242nd ACS National Meeting, Denver
Sept. 26	ACS Board Meeting, MCFTA Board Room, 7 pm
Sept. 30	Deadline for abstract submissions, 2011 Fall Scientific Meeting

Click on the Calendar button at <http://www.midlandacs.org> for more details.

things you would like to be involved with, and get out there and help. Your time will be greatly appreciated and you just might find that you enjoyed it!

All for now,

Letter to the Editor

Thanks for a Successful Climate Event

Iwould like to thank the Midland Section officers and committee members, Gina Malczewski, Sue Perz, Amy Tesolin-Gee, Eva Li, Pat Cannady, and others who worked to plan and publicize the Climate Change Speaker Event on June 6, 2011. This was a very successful event where an audience of about 160 Midland Section members, and others from the community, were able to hear and discuss some aspects of both sides of the issue.

This was one our most successful programs in recent years. Good publicity before the event in the *Midland Daily News (MDN)* and other area newspapers and *The Midland Chemist*

and other Section publicity routes helped the attendance. We even got front-page top headline post-meeting coverage in the *MDN*.

This event was several years in the making, ever since our unsuccessful attempt to have a speaker who questioned the validity of the theory of anthropogenic global warming in 2008 following a speaker in 2007 who spoke in favor of the theory.

I am particularly pleased that the Board of Directors agreed to host this rather controversial topic in a public meeting in Midland in spite of the official ACS position on this topic.

Wendell L. Dilling

Gina Malczewski, Chair-Elect

Join the Fun—ACS Day at the Fair

ACS DAY at the Midland Fair will be **TUESDAY, AUGUST 16**. These are what members, families and friends can take advantage of:

- Heavily discounted ride bands: just \$13.00 for all the thrills you can squeeze in between 1 p.m. and closing time.
- FREE FOOD! Hot dogs, drinks, chips, popcorn and sno cones will be available 4:30 to 7:30 p.m. AT BUILDING #37 (by the grandstand).
- Free demos at the Fair center: join

(Continued on page 2)

Gina Malczewski, Chair-Elect

Midland ACS Sponsors Climate Change Events

On June 6, 2011, Midland ACS sponsored two climate change events, involving Drs. Andy Jorgensen of the University of Toledo, and John Christy from the University of Alabama at Huntsville, who have different views about the increases in carbon dioxide that have been measured globally.

The first event was a special assembly at Northeast Middle School in Midland, involving about 100 students. Dr. Andy Jorgensen, Vice Chair of ACS National's Education Committee, who took a recent sabbatical to focus on climate change education, spoke to the students about global changes in carbon dioxide, temperature, and weather events, and the use of models to predict future trends. He encouraged them to recycle to save energy and generate less emissions.

The presentation was interactive, with the audience using devices to record their responses to Andy's questions, and involved video clips and live demos and examples relating to carbon dioxide and recycling. The students were engaged, and teachers were very pleased with the event.

In the evening, Dr. Christy, Alabama's state climatologist, and an award-winning member of the American Meteorological Society, joined Dr.

Jorgensen. Each speaker presented their views and a discussion period ensued.

Dr. Christy stated that carbon dioxide is not an optimal predictor of climate change because it is too sensitive; data on global temperatures vary, depending on the location of the measurements and how they are taken. He reported that Sierra Nevada snow mass is a better indicator of severe weather than are atmospheric changes, and also said that clouds have a negative feedback effect on warming.

He disavowed models predicting the increase of CO₂ or temperature, but used some to show that human interventions have no significant effect on future global trends. Based on current data, he does not support limiting fossil fuel energy use, especially in third world countries, where quality of life is directly related to energy access.

In response to Dr. Jorgensen's data that report scientific agreement about concern over climate change, Dr. Christy said that consensus is not science, and that surveys of climatologists tend to involve only those who come forward as climate change supporters.

Dr. Jorgensen used the interactive approach with the evening audience as well, and provided data from NASA and

other reputable published sources that indicated global carbon dioxide and global temperature increases parallel one another, and are increasing exponentially.

The multiple models he showed compared future trends in temperature and carbon dioxide with and without various forms of mitigation; some showed reduction of global effects if emission-controlling or other measures are taken.

He also addressed the acidification of the oceans and the rise in sea level (which is NOT at this time related to melting of ice caps, but rather to the increase in water volume in warmer temperatures).

There were 150-160 attendees, who included teens, college students, interested community members and ACS retirees. Discussion was lively and lengthy. Free snacks were provided.

Many thanks to those who helped with this event:

Gina Malczewski

Sue Perz

Jeff Seifferly

Gavin Lu

Janet Smith

Eva Li

Amy Tesolin-Gee

(Continued from page 1)

us for some interactive science activities 4:30-7:30 p.m.

Tickets for ride bands are available from the following, beginning August 9, and are also available at the fair (Building 37) on Aug 16:

Dow Corning:

Michelle Rivard

Eva Li (989-492-0531)

Cassie Hale

Sue Perz

Kevin Wier

Andrea Alexander

Dow:

Paul Popa

Amy Tesolin-Gee

If you need to make other arrangements, or have questions, please contact one of the above, or call Gina Malczewski at 989-631-4038.

Deb Mendrick, 2011 MMTG Secretary

Call for Nominations for National Chemical Technician Award

The call for nominations for the 2012 National Chemical Technician Award is now open. Anyone can nominate a deserving Technician/Technologist who meets the criteria listed below:

- Must be currently employed as a chemical technician.
- Must have worked as a chemical technician for a minimum of five years.
- Nominees do not need to be an ACS member.

Neither nominators nor nominees need to be MMTG (Mid-Michigan Technician Group) or ACS members. The nominees can also be submitted for the Mid-

land ACS Section Chemical Technician award.

The award will consist of a trip for the winner and a guest to the spring American Chemical Society National Meeting, March 25-29 in San Diego.

Additionally, the awardee will receive a \$1000 honorarium at dinner held in their honor in San Diego.

Nomination packets must be received by the Committee on Technician Affairs, no later than Sept. 30.

Visit www.acs.org/ncta for nomination criteria, complete details and to download the nomination or re-nomination form. Send questions to cta@acs.org.

Rusty Govitz, MMI Communications Director

Impact Analytical Adds Three Experts

Impact Analytical recently announced three new additions to its growing stable of testing experts. Joining the Impact team are Amy Payeur, Lindsay McNalley and Josh Lenartowicz.

Payeur, hired as an Analytical Leader, will be working in the Gas Separations Laboratory. She recently graduated with a Ph.D. in analytical chemistry from the University of Michigan, where her research focused on Gas Chromatography–Mass Spectrometry.

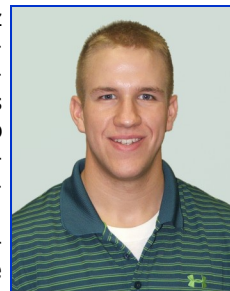
McNalley comes to Impact as a Sales Account Leader who will specialize in Medical Device Industry sales. She spent the past seven years at The Dow Chemical Company. She holds a bachelor's degree in chemistry from Saginaw Valley State Univer-



Amy Payeur

sity and an M.B.A. from Northwood University.

Lenartowicz comes aboard full-time at Impact following eight years as a student co-op for the organization. Hired as Associate Analytical Technologist, Lenartowicz will be working in the Thermal and Molecular Spectroscopy laboratories at Impact. He has a bachelor's degree in chemistry from SVSU.



Josh Lenartowicz



Lindsay McNalley

Impact Analytical is a contract testing laboratory established within Michigan Molecular Institute. MMI is located in Midland, Michigan, with the

mission to promote the advancement of applied scientific research in the areas of chemical and polymer science.

Impact Analytical works with more than 300 companies around the world and is dedicated to providing top-notch analytical service that supports the success of its customers.

Working in a variety of industries—pharmaceutical, plastics, consumer products, medical devices, packaging, automotive and specialty chemical—Impact Analytical combines unparalleled service with a full suite of capabilities.

From quality control testing to identification of an unknown to support for research efforts, Impact Analytical is established in the industry as a partner that delivers reliable data and top-shelf service.

More information about Impact Analytical is available by visiting www.impactanalytical.com; to learn more about MMI, go to www.mmi.org.

Brian Pate, Chair, Nominations and Elections Committee

Call for 2012 Midland Section Officer, Director Candidates

There are a variety of compelling reasons to take advantage of the chance to become involved as an officer or director in the Midland Section ACS. Such engagement affords unique opportunities to provide vision and voice to the growth of the central Michigan scientific community, beyond the stovepipes of our own particular employers, all while developing and deepening useful interactions across the broader community.

Why is this important? What good lies at the interfaces? In this time of challenging economic realities and complex scientific challenges, most of us recognize, at least in the abstract, that there is a premium on those able to look outside of the box, on those able to draw upon the greatest possible breadth of at-hand resources. Those with a fuller at-hand scientific community find that it benefits them professionally as well as personally, and they find that there is real FUN in being able to team across the various premier regional scientific institutions to accomplish good for our friends,

family, and neighbors, in nurturing our own scientific and communal context to be closer to what we would have it to be.

Actions speak louder than words. Consider that I personally have taken the extraordinary step of petitioning the National ACS to retain my own Midland Section ACS membership and the ability to be a Midland Section officer or director, despite my current employment at the Defense Threat Reduction Agency, Joint Science and Technology Office for Chemical Biological Defense (Fort Belvoir, VA). The chemical community in central Michigan is truly special. The personal and professional benefits of engaging the central Michigan community as a Midland Section ACS officer or director certainly outweigh the minimal time investment required and, in the words of Tina Leaym, "the more you put into it, the more rewarding it becomes."

Here is your chance to engage in your local ACS section. We need candidates to run for the following positions for 2012:

One-Year Terms

Chair-elect
Secretary
Treasurer
Chair, Nom. & Elections Comm.
Director*

Three-Year Terms

Directors (3 positions open)
Councilor
Alternate Councilor

*The one-year Director position is a reduced-term position with responsibilities that are otherwise the same as the normal three-year Director positions. The one-year term will be awarded to the Director candidate who receives the fourth-highest vote tally.

If you are interested in running for any of these positions or know of someone with potential interest, please contact Brian Pate at (989) 708-1195 or Brian@BDPate.org. If you have any questions regarding what these positions entail, please contact the current officers and directors listed on the Midland Section website. Carpe diem!

Diana Deese, Awards Committee Chair; Photographs provided by Angelo Cassar

Spring Awards Banquet Honors Teachers, Students, Others

Over 200 local students, educators, and industry personnel attended the Midland ACS Section's 20th Annual Spring Awards Banquet on April 28, 2011 at the Great Hall Banquet and Convention Center in Midland Michigan. Eldon Graham, professor emeritus at Saginaw Valley State University was invited as the opening speaker in which he presented his program, "My Life-Long Love Affair with Chemistry and Engineering."

There were 32 high school students recognized for their outstanding performance in the U.S. National Chemistry Olympiad and/or high school chemistry. Educators from five counties represented by the Midland Section were eligible for nomination in an annual effort to recognize the important role teachers have in inspiring the next generation of scientists and chemists.

Beth Quimby of Chestnut Hill Elementary School (Midland) received the Outstanding Achievement in Elementary Science Education award which was presented by Randy Shaedig, Science Coordinator for Midland Public Schools.

Jennifer Lenon of Central Middle School (Midland) was awarded the Outstanding Achievement in Middle Level Science Education award, presented to her by Steven Poole, Central Middle School principal.

David Allan of Saginaw Arts and Sciences Academy (Saginaw) was selected to receive the Outstanding Achievement in High School Chemistry Education award which was presented to him by Magda Hlavacek, one of his

outstanding students.

At the collegiate level, eight students from four area colleges/universities were recognized for their outstanding achievement in chemistry or biochemistry. Michelle Rivard (MMTG) honored David Gutowski with this year's award as the Mid-Michigan Technician Group's Outstanding Chemical Technology Student for his hard work and academic achievement in the chemical technology field.

This year, industry and volunteer awards were included in the spring banquet instead of at the fall scientific meeting. The Section announced Charles and Barbara Roth of Midland as this year's awardees of the Science Education Volunteer of the Year award for their time and dedication to our community. The Roth's spend countless hours presenting science and chemistry demonstrations to schools and local organizations.

The award for Outstanding Achievement and Promotion of the Chemical Sciences was presented to James Falender of Central Michigan University for his contributions to science, technology, and product portfolios within industry; and, continuing contributions to the education of future chemists at the university level.

For her reliability, initiative, personal leadership, volunteerism, and strong contributions to the chemical industry, Amy Tesolin-Gee (The Dow Chemical Company) was selected as the 2011 Outstanding Chemical Technician.

Furthermore, 13 Section members were awarded with the ACS Member-

ship Certificate in recognition of their 50- or 60-year membership to the American Chemical Society. Awardees were congratulated during inspirational remarks made by Dr. Catherine Hunt (ACS president 2007).

Pat Cannady, current chair of the ACS Midland Section, closed the program with congratulations and encouragement to all to continue promoting and participating in all aspects of science and chemistry. The next awards banquet will be held in the spring of 2012. Consider taking time to nominate or recognize those around us who are passionate about furthering chemistry and the related science fields.

Awards Presented

US National Chemistry Olympiad, presented by Janice Tomasik (Chemistry Olympiad Committee):

- Yichuan Wang, H.H. Dow HS
- Alexis Olson, H.H. Dow HS
- Daniel Tzou, H.H. Dow HS
- Jake Mills, Midland HS
- Steven R. Rausch, Midland HS
- Dalton J. Allan, Saginaw Arts & Sciences Academy

Outstanding High School Chemistry Students:

- Andrew Weaver, H. H. Dow HS
- Ryan Hool, Frankenmuth HS
- Shelby Doyle, John Glenn HS
- Abigail Kuehne, All Saints Central HS
- Kathleen Guytingco, Sacred Heart Academy
- Kimberly Wheeler, Windover HS
- Kevin Laubhan, Swan Valley HS



Outstanding High School Chemistry Students and US National Chemistry Olympiad Award Recipients (Continued on page 5)

(Continued from page 4)

- Mitchell Siler, Merrill HS
- Jacob Bush, Breckenridge HS
- Leo Devota, Chesaning Union HS
- Magda Hlavacek, Saginaw Arts & Sciences Academy
- Zach Vasold, Freeland HS
- Steven Rausch, Midland HS
- Joshua Hutchinson, Shepherd HS
- Andrew Nees, Bay-Arenac HS
- Haley Huskins, Bay-Arenac HS
- Amy Murphy, Bullock Creek HS
- Megan Burk, Ashley HS
- April Lukowski, Bay City HS
- Collin Shooltz, Midland Academy
- Ashley McNeil, Mt. Pleasant HS
- Emilee Furhman, Pinconning HS
- Kyle Koehler, St. Louis HS
- Elias Noriega, Arthur Hill HS
- Mallory Jenkins, Heritage HS
- Kayla Wlock, Western HS

Outstanding College Chemistry Students:

- Jessica LaBean, Delta College, Chemistry
- Ryan Spitler, Alma College, Chemistry
- Kristen N. Westdorp, Alma College, Biochemistry
- Mitchell Heethius, Central Michigan University, Chemistry
- Jonathan Arcobello, Central Michigan University, Biochemistry
- Daniel Cater, Central Michigan University, Biochemistry
- Che Hin Ho, Central Michigan University, Biochemistry
- Devan Schlund, Saginaw Valley State University, Chemistry

Mid-Michigan Technician Group – Outstanding Chemical Technology Student Award:

David Gutowski, Delta College



ACS 50- and 60-Year Membership Certificate Award Recipients



Beth Quimby receives her Outstanding Elementary Science teaching award.

Outstanding Achievement in Elementary School Science Education:

Beth Quimby, Chestnut Hill Elementary, Midland

Outstanding Achievement in Middle School Science Education:

Jennifer Lenon, Central Middle School, Midland

Outstanding Achievement in High School Science Education:

David Allan, Saginaw Arts and Sciences Academy



Science Education Volunteers, Charles and Barbara Roth, with Steve Keinath

Science Education Volunteer of the Year:

Chuck and Barbara Roth, Midland, Michigan

Outstanding Chemical Technician:

Amy Tesolin-Gee, The Dow Chemical Company

Outstanding Achievement and Promotion of the Chemical Sciences:

James Falender, Central Michigan University

50 Year ACS Membership Certificates:

- Ralph G. Czerepinski
- Richard J. Dolinski
- David James Jensen
- Yung Ki Kim
- Robert S. Kolat
- Peter J. Moehs
- Norman G. Moll
- Dale C. Myers

60 Year ACS Membership Certificates:

- Robert W. Belfit, Jr
- Vernon A. Fauver
- Fred D. Hoerger
- Donald L. Miller
- Richard E. Skochdopole



Outstanding College Chemistry Student Award Recipients

Wendell Dilling, Director and Historian

In Past Issues of *The Midland Chemist*

40 Years Ago This Month

In *Symposium on Energy and the Environment* by Donald R. Petersen: "The Midland Section ACS will sponsor a major symposium on Energy and the Environment, to be held in Midland on October 1-2. This meeting is the culmination of a study made by the Midland Section's Board of Directors, and is being carried out with the cooperation of the national office of the ACS. The interlocking set of problems which contribute to this country's power generation dilemma is so complex that few of us understand or are even aware of its full scope. The intent of the symposium is to contribute to this general understanding, not only among ACS members, but also among all those who live in the Saginaw Valley. The symposium will consist of several addresses by nationally-recognized authorities on such topics as the technology of coal, oil and natural gas, safety aspects of nuclear reactor design, radiation levels and human health, and non-conventional sources of energy. Speakers have been selected mainly from universities and research institutes."

30 Years Ago This Month

In *Project SEED Stimulates 5 Disadvantaged Students* by Bob Howell: "This summer the Midland Section-ACS is sponsoring five Project SEED students. Two of these, Kalualani Martin and Shelly Thering, from Mt. Pleasant High School, are involved in flavanoid interconversions under the

direction of Bob Howell and Robert Kohrman at Central Michigan University. Three students, John Armstrong from Midland's Dow High School, Samuel Sanders from Saginaw High School and Brian Miles from Saginaw's Buena Vista High School are involved in the development of a process for making a self-contained nitrogen fertilizer system available on a batch basis to individual farm units. This work under the direction of George Eastland and Dave Dalgarn is being carried out at Saginaw Valley State College."

20 Years Ago This Month

In *From the Chair* -- by Peter Dreyfuss: "The Midland Section did it!! After many years of pats on the back, honorable mentions, at-a-boys, and the like, we have been chosen to receive the 1991 ACS Award for Outstanding Performance by Local Sections in the medium large category (a category of sections with 800-1999 members). The Award recognizes outstanding activities and performance by the section. This is an award of which we can all be justly proud and pleased, because it recognizes years of our collective efforts, culminating in the activities and performance of 1990. Our hats are off to Bill Pike and Vicky Cobb who were directly responsible. Bill, last year's Chairman, and Vicky, 1990 Secretary, wrote major parts and assembled committee reports for the 1990 Annual Report of Midland Section activities. On the basis of the information in the section annual report the national ACS

selected the Midland Section to be honored by the 1991 outstanding performance award. The programs described in our report are the work of Bill Pike, the committee chairs, and the section membership. It was under Bill's stewardship that these programs were carried out. Great job Bill! Thanks! It is you, the Midland Section membership, who implemented the program. Great job all! Thanks!"

10 Years Ago This Month

In *A Step on its Continued Journey: Aabizikaawin Laboratory Dedication* by Kristine Danowski: "May 30 was an eventful and beautiful day for the many parties gathered for the dedication of the new Aabizikaawin School science laboratory, now a part of the Saginaw Chippewa Tribe. The dedication was the culmination of six months of work by the school, Midland Section's Project Science Literacy, and Dow Corning. The Literacy group installed cabinets and laboratory benches and brought in balances and glassware, all donated by Dow Corning. The Literacy group also provided funding for water and electrical hook-ups. Students and teachers from the school attended the dedication, as did reps. from the Saginaw Chippewa Tribe, Delta College, Central Michigan University, Dow Corning, and Midland Section ACS. The Midland Section Project Science Literacy has designated the new lab as a Place of Chemistry for the Future."

Gina Malczewski, Chair-Elect

Midland Section Hosts Coffee Cafes

Four "coffee" cafes have been held so far in 2011—the "Have a Cup of Chemistry! Chemical Extraction and Coffee-Making" presentations are very popular.

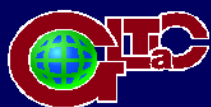
Each session involved a prologue about the principles of extractions (covering the influence of surface area, time, temperature and solvent [pH] on outcome and an explanation of the "business" side of extraction—presented by Gina Malczewski), followed by information on coffee growing, roasting, grinding and brewing, with demonstrations of each step (as time permitted), and tasting at the

end—all done by Angelo Cassar. As an activity tailored to older students and adults, each was highly successful, and greatly enjoyed by participants. We have already received requests for the future. Each session lasted at least 1.5 hr.

Many thanks to Angelo, who has carted around a great deal of

equipment to all kinds of locations, and has very passionately conveyed his love of coffee to many interested listeners.

Date	Location	Approximate Number of Attendees
February 24	Windover Alternative Ed School, Midland, MI	Sixty students (including chemistry and culinary classes) and some faculty
May 5	Oasis Alternative Education High School, Mt. Pleasant, MI	20-25 chemistry students
May 12	Bay City Community High School (alternative education) Bay City, MI	20 chemistry students
May 13	Senior Center, Midland, MI	About 20 senior adults



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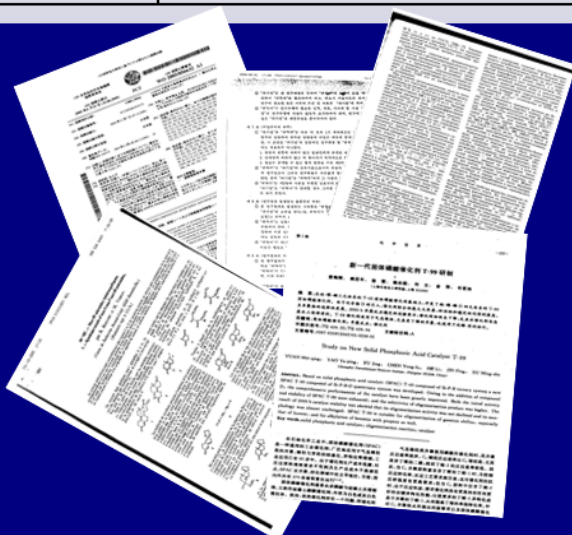
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