

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

August 2015, Vol. 52, No. 8

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Gretchen Kohl Recognized as ACS Fellow

Gina Malczewski, Chair, Midland Section ACS



We are extremely pleased and proud that our colleague Gretchen Kohl has been named an ACS Fellow. The Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members of ACS for outstanding achievements in and contributions to science, the profession, and the Society.

Over a 36-year period at Dow Corning, Gretchen worked on diverse chemistries and processes. She was responsible for product improvements that affected materials ranging from sealants and resins to emulsions and aminofunctional siloxanes. She developed innovative performance tests, realigned test specifications, served as Product Steward, and expanded her expertise with many certifications including those for ISO auditor, Six Sigma black belt, and HAZWOPER/H2S. Gretchen had particularly significant impact on Dow Corning processes, including precious metal recovery, integration of waste and recycled materials into the product management system, lab data automation, and import document harmonization and compliance. She won three Manufacturing Achievement Awards and made changes that have saved the corporation over \$4M annually. Several US patents and two peer-reviewed papers resulted from her efforts in hair care. To many technicians, factory quality control testers, and summer interns, Ms. Kohl was a coach as well as a supervisor.

At the local level, Gretchen has held nearly every ACS office (some more than once), served as Midland Chemist editor, and was instrumental in the development of the teacher workshop program "Bringing Science to Life in the Classroom". Her National ACS positions include Membership Chair of the Practical Pollution Prevention Committee, Liaison to the Committee on Local Section Activities, and Committee Associate for the Committee on CAS.

Congratulations, Gretchen, on a well-deserved honor--and for all your years of service to chemistry!

ACS Day at the Midland County Fair, August 20
Michelle Rivard, Chair-Elect, Midland Section ACS

ACS Day at the Midland County Fair!

Sponsored by the Midland Section of the American Chemical Society

Thursday, Aug 20, 2015



FREE
Hot dogs, chips, drinks
to ACS/MMTG/YCC
members, families
and friends



FREE!



Ride 'til you drop!

Discounted bands good all day

Just **\$16.00!**

Regular tickets are \$20-25 for half day

Ride tickets must be purchased before Aug 14

For more information and advanced ride tickets contact

Cassie - cassandra.hale@dowcorning.com, Kelly - k.doede@dowcorning.com,

Deb - dmendrick1@dow.com, Jeanette - jeanette.young@dowcorning.com,

or Michelle - michelle.rivard@dowcorning.com

FREE!

FREE
SCIENCE
DEMOS

4:30-7:30 pm,
Tan picnic bldg
north end of
Grandstand

Discounted Ride Tickets for Midland County Fair, August 16-22 - Purchase Deadline August 14
Michelle Rivard, Chair-Elect, Midland Section ACS

Discounted Ride Tickets for Midland County Fair Aug 16-22



Offered by the Midland Section of the American Chemical Society



Ride 'til you drop!
Discounted bands good
All day, Any day!
Just **\$16.00!**

Discounted ride tickets must be purchased before Aug 14th.

Regular price \$20-25 for half day

For more information and advanced ride tickets contact

Cassie - cassandra.hale@dowcorning.com, Kelly - k.doede@dowcorning.com,

Deb - dmendrick1@dow.com, Jeanette - jeanette.young@dowcorning.com,

or Michelle - michelle.rivard@dowcorning.com

Call for Nominations for 2016 Officer and Director Candidates

Kshitish A. Patankar, Chair, Nominations and Elections Committee

Here is your opportunity to become more involved in your local ACS section! We need candidates to run for the following positions for 2016 –

- 1) Chair-elect (1-year term)
- 2) Secretary (1-year term)
- 3) Treasurer (1-year term)
- 4) Chair, Nominations and Elections Committee (1-year term)
- 5) Councilor (3-year term)
- 6) Alternate Councilor (3-year term)
- 7) Directors (3 open positions, 3-year terms)
- 8) One new Director for two-year term

NOTE: One Director (Kevin Wier) is seeking popular approval; he was appointed in 2015 and wants to finish out the remaining two years of a three-year term. Likewise, Michelle Rivard is running for voter approval after her appointment as Chair-Elect this year. She will serve as the Chair next year if this occurs. Interested candidates can opt to run for these two positions, but it is important to note these two have already served the Section well for one year of their terms.

If you are interested in running for any of these positions, or if you know of someone who might be interested, please contact **Kshitish Patankar** at KPatankar@dow.com or **989-636-8482**. If you have any questions regarding the responsibilities of any of the positions, please contact the current officers or Kshitish Patankar. You are also encouraged to visit our website at www.midlandacs.org.

Nominations from the floor will be accepted at the August 31 Board meeting (MCFTA Board room, 7:00 PM). Please be aware that the nominees will have to accept their nomination prior to the announcement from the floor. If you are not motivated to run for a board position, there are still many other interesting ways in which you can serve. The Committees are listed below. The ones with asterisk need chairs or co-chairs.

Awards	Technology	Teacher Support
Chemistry Olympiad	Project SEED	Fall Scientific Meeting
Publicity*	Finance	Program
Outreach/Kids and Chemistry	Midland Chemist (Editor)	Silver Circle/Senior Chemists
Long Range Planning	Diversity and Multicultural Committee	Nominations and Elections
Historian	Women Chemists Committee	Membership*
Young Chemists Committee	SciFest/NCW	Sustainability /Environmental Affairs*
MMTG	Scholarship Committee	

There are a variety of compelling reasons to take advantage of the chance to become involved as an officer, director, or committee leader/member for our award-winning Section -- networking beyond your workplace, 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.



Call for Volunteers - Chemists Without Borders

Ronda Grosse, Board member

Through our network of volunteers, comprised mostly of chemists, Chemists Without Borders seeks to use scientific approaches to assist with solving important global problems. Much of the effort centers around supporting local people where chemistry can make a difference, and providing laboratory protocols to students and communities. As highlighted in the last newsletter, details can be found at <http://www.chemistswithoutborders.org/> and <https://www.facebook.com/groups/ChemistsWithoutBorders/>

Mission:

Chemists Without Borders solves humanitarian problems by mobilizing the resources and expertise of the global chemistry community and its networks.

Vision:

A global support network of volunteers providing mentoring, information and advice to ensure every person, everywhere, has affordable, consistent and persistent access to:

- Essential medicines and vaccines
- Sufficient safe water
- A sustainable energy supply
- Education in green chemistry and business which people can apply in their daily lives and teach to others
- Safe processes in work environments where chemical hazards exist
- Emergency support, including essential supplies and technology

Some specific efforts ongoing now that you could support include:

1) Arsenic Education Project – Measuring levels of arsenic and other contaminants in drinking water. Our first goal is to educate the population of Bangladesh about the hazards of arsenic in the water and second, help replace contaminated wells. Chemists Without Borders has been partnering with institutions such as University of Massachusetts and Alaska Pacific University to develop simple protocols that can be taught to high school students. Members from our own Midland section helped put together arsenic test kits for distribution/use at Chittagong schools!

2) Pharmaceutical Analysis Laboratory – Development of paper analytical devices to perform rapid characterization of suspect medications, such as antibiotics. Through collaborations with Notre Dame and University of San Diego, Chemists Without Borders is helping to provide high quality, validated chemical analysis of pharmaceutical samples from partners in Africa and the developing world.

If you are interested in contributing to these projects or others, please contact me at rondagrosse@chemistswithoutborders.org. Thank you!

2015 Fall Scientific Meeting, October 24
Pat Smith, Fall Scientific Meeting Publicity Chair

The Midland Section of the American Chemical Society is holding its annual Fall Scientific Meeting on Saturday, October 24 at Saginaw Valley State University. The theme for this year's meeting is "Chemistry Colors Our World". The meeting will highlight several experts in the area of dyes, pigments, and optics. It will also feature a poster session. Please circulate this information to your organizations and hold the date. We welcome your attendance and participation.

The call for abstracts and meeting registration process is now open and can be accessed at <http://goo.gl/forms/xXuBhYG5Bf>. The poster submission deadline is September 25. The meeting pre-registration deadline is October 18. Registration is free and lunch will be provided for all pre-registered meeting participants. For more information, please contact either of the Fall Scientific Meeting Co-Chairs, Megan Thomas at MMThomas@dow.com or Roja Ergun at Ergun@dow.com.



ACS Fall Scientific Meeting

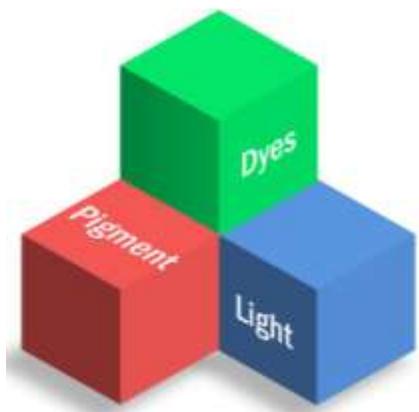
Saturday, October 24, 2015 8:30am – 3pm

Saginaw Valley State University



"Chemistry Colors Our World"

Chemistry of dyes, pigments, and light



The Fall Scientific Meeting will feature:

- A technical session with presentations from experts of dyes, pigments and light community.
- **Registration is free** and lunch will be provided for all pre-registered participants. Please register at <http://goo.gl/forms/xXuBhYG5Bf>.
- **Call for abstracts:** Poster abstracts may be submitted at the link above. **September 25th** is the deadline for abstract submission.

Questions or comments?

Please contact the conference chairs at MMThomas@dow.com or Ergun@dow.com

HANTZGROUPSM

Social Security Workshop

The workshop is scheduled for:

June 3rd
June 17th
June 29th
July 8th
July 22nd
Aug 4th
Aug 12th
September 2nd
September 16th
September 30th

Location:

HantzGroup
Midland Office
2603 W. Wackerly
Road, Suite 100
Midland, MI 48640

RSVP:

(989)839-4916
ext. 1129

Sponsored by:

HANTZ FINANCIAL SERVICES, INC.*

Hosted By: Chad Capp

Speaker: Frederick J. Lambert

Topics to be covered:

- Timing Your Social Security Benefit
- Benefits of Waiting
- When Benefits Become Taxable
- Spousal Benefits
- Survivor Benefits
- Government Pension Offset
- Windfall Elimination Provision
- Collecting Benefits From a Divorced Spouse
- Social Security Maximization Strategies

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*Member FINRA/SIPC. Information about SIPC and the SIPC brochure may be obtained by contacting SIPC at (202) 371-8300 or on their website at www.sipc.org.

Changes to Midland Section Website

Gina Malczewski and Satyajit Sarkar, Midland Section ACS

Over the last several months, the Midland ACS website has had quite an overhaul. Although the renovation is not yet complete, the following changes have been made:

- The tabs have been redone
- All committee write-ups have been updated
- All event write-ups have been updated
- All leadership contact info is current
- New "Why am I a Member?" testimonials have been added
- A section for Board meeting minutes and slides has been added

In the near future the following are planned:

- New photos with captions
- Facebook feed on the main page
- Handbook update
- A search function

Please visit the "new" site; your comments and suggestions are encouraged. This effort has been interrupted by various challenges, so we appreciate your patience. The result will be a website we are proud of--but we have to commit to keeping it that way!

In Past Issues of *The Midland Chemist*

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

50 Years Ago

In *The Midland Section: September, 1965*, by J. E. Dunbar, Editor, *The Midland Chemist*: "This summer the Section has grown from a medium large section (500 to 1000 members) to a large section (more than 1000 members). Perhaps this is a natural growth and cannot be credited entirely to the assiduity of the active members, but these active members have certainly prepared the Section during the past five years to rank in quality equal to the other large sections of the Society."

40 Years Ago

In *ACS Program Schedule*: "September 17, The Midland Section of the ACS begins its 1975-76 lecture program with Mr. Carl A. Gerstacker as the invited speaker. This meeting, held in conjunction with the American Institute of Chemical Engineers, will take place at 8:00 p.m. in the auditorium of 47 Building. At that time Mr. Gerstacker will give a short talk on general economic conditions and trends and then entertain questions from the audience.

Carl Gerstacker has been chairman of the board of The Dow Chemical Company since 1960."

30 Years Ago

In *McKinley Featured in Museum Exhibit*: "As a young girl looking at Saturn's rings through her father's homemade telescope, Sue McKinley learned science wasn't just for men. Today, she has a unique chance to tell others.

McKinley, senior research manager in Dow Chemical's Central Research Materials Science and Engineered Products Laboratory in Midland, is featured at the Chicago Museum of Science and Industry in a new exhibit examining the role of women in science.

Titled "My Daughter, the Scientist," the 3,000-square-foot exhibit features McKinley as the only chemist along with 11 other female scientists from various fields. Also included in the exhibit is information on social barriers faced by women, the history of women in science and science as a career for women.

Other women featured in the exhibit include a ceramic engineer from AT&T Bell Laboratories, a NASA astronaut, a physicist and electrical engineer from the Massachusetts Institute of Technology and an endocrinologist from Georgetown University Medical School."

20 Years Ago

In *From the Chair* by Fran Voci, Chairman ACS Midland Section: "Sitting in the chairman's position, I know that much of the work of this Section is carried out under the leadership of talented and dedicated committee members. We have introduced really innovative programs in the past five years. Most of these programs have risen out of the ideas and energy of our committees. Our Younger Chemists' Committee was the source of the creativity and enthusiasm for the Midland Country Fair Booth. Paid attendance at the Fair is usually over 200,000. What a wonderful opportunity to educate and interest and excite children of all ages through science. The hands-on activities used in the Fair Booth are designed to be eye-catching and fun. The involvement of our retiree members allows us to staff the Fair Booth during all the hours the Fair is open."

10 Years Ago

In *Students Celebrate Earth Day with a Splash!* by Gretchen Kohl: "As with most ACS programs that start out as a one-day event, Earth Day in the Midland Section ACS has evolved into a major year-long event. In 2004 the theme of "What Do You Know About H₂O" initiated a watershed testing program. In this program, high school chemistry and physics students sample, test, and evaluate major rivers and tributaries in the Michigan Saginaw River watershed, an area of fresh water rivers comprising over 8700 square miles. Students sampled water from a number of sites within the watershed and tested for inorganics and physical characteristics of the test site. Sampling was performed each week for over one year to date. The first year of testing was to obtain a baseline of each test site for continued testing over the next three years. Each site database will be combined to provide a complete, systematic picture of the quality of water in this important watershed."

List of Advertisers in this Issue

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Upcoming Dates, Events, and Other Updates

- August 3 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- August 14 – Deadline to purchase discounted ride tickets for the Midland County Fair. \$16 for all day, any day. Regular price is \$20-25 for a half-day. For more information and to purchase advanced ride tickets, please contact cassandra.hale@dowcorning.com, k.doede@dowcorning.com, dmendrick1@dow.com, jeanette.young@dowcorning.com, or michelle.rivard@dowcorning.com.
- August 16–20 – 250th ACS National Meeting & Exposition, Boston, MA. For more information, see <http://www.acs.org/content/acs/en/meetings/fall-2015.html>.

- August 20 (day long) – ACS Day at the Midland County Fair. Free hot dogs, chips, and drinks to ACS, MMTG, and YCC members, families, and friends. Discounted ride tickets (\$16, all day) must be purchased before August 14. For more information and to purchase advanced ride tickets, please contact cassandra.hale@dowcorning.com, k.doede@dowcorning.com, dmendrick1@dow.com, jeanette.young@dowcorning.com, or michelle.rivard@dowcorning.com.
- August 20 (4:30 – 7:30 PM) – Free Science Demos at ACS Day at the Midland County Fair, tan picnic building at the north end of the grandstand. For more information, please contact cassandra.hale@dowcorning.com, k.doede@dowcorning.com, dmendrick1@dow.com, jeanette.young@dowcorning.com, or michelle.rivard@dowcorning.com.
- August 31 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- September 25 – Deadline for submission of poster abstracts for the 2015 ACS Fall Scientific Meeting. Poster abstracts may be submitted through the Fall Scientific Meeting website at <http://goo.gl/forms/xXuBhYG5Bf>.
- October 5 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- October 18 – Deadline for pre-registration to attend the 2015 ACS Fall Scientific Meeting. Registration is free and lunch will be provided for all those who are pre-registered meeting participants. Please register at <http://goo.gl/forms/xXuBhYG5Bf>.
- October 24 (8:30 AM – 2:00 PM) – Midland Section ACS Fall Scientific Meeting, Saginaw Valley State University. The poster abstracts submission deadline is September 25. The meeting pre-registration deadline is October 18. For more information, contact either of the Fall Scientific Meeting Co-Chairs, Megan Thomas (MMThomas@dow.com) or Roja Ergun (Ergun@dow.com).
- November 2 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- December 7 (7:00 – 8:30 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- April 12, 2016 (save the date) – Evening dinner meeting with Jacqueline K. Barton, 2015 National ACS Priestley Medal recipient; Chair, Division of Chemistry & Chemical Engineering and Arthur & Marian Hanisch Memorial Professor, California Institute of Technology; and Board member of The Dow Chemical Company. For more information, contact Michelle Cummings at michelle.cummings@dowcorning.com.

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Position open	Membership roster, hardcopy mailings

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