

Midland Local Section invites all ACS, MMTG, YCC, and TECH members to

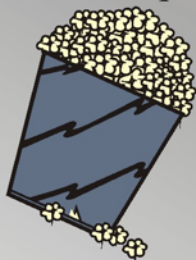
PROFESSIONALS DAY

at the

MIDLAND COUNTY FAIR

Thursday, August 14, 2008

4:00–7:30 p.m.



Free Popcorn, Hot Dogs, Sno-cones
Demos, Moonwalk, Discounted Rides

Eighth Annual Professionals Day *See pg. 2*

See also...

- **Fall Scientific Meeting announcement, pg. 3**
- **Call for 2008 Section award nominations, pg. 7**
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THE MIDLAND CHEMIST

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From the Chair

Midland Section Finalist for Seven ChemLuminary Awards

Congratulations Midland Section! ACS has just named us as finalists for the following National awards:

- Committee on Community Activities—Greatest Community Involvement in Chemists Celebrate Earth Day
- Committee on Community Activities—Outstanding Event for the Public Using the Yearly Theme
- Committee on Community Activities—Outstanding Teacher Program
- Committee on Local Section Activities—Most Innovative New Activity or Program in a Local Section
- Committee on Local Section Activities—Outstanding Performance by a Local Section Medium Size Category Award
- Younger Chemists Committee—Outstanding Local Section Younger Chemists Committee
- Younger Chemists Committee—Outstanding or Creative Local Section Younger Chemists Committee Event



Dorie Yontz, Chair
ACS Midland Section

The winners will be announced at the National ACS meeting in August. Regardless of the outcome, I'd like to thank the members who worked so hard throughout 2007 to make these nominations possible. National ACS continues to recognize our Section for its efforts year after year and that really says something about the strength of our membership!

And the work continues this year—I'd like to send a word of thanks to the volunteers who spent time doing demos at the Dow Family Reunion at the end of June. Thank you so much for taking time out of your day to help one of our Section's main sponsors.

In August, we have ACS Professionals Day at the Midland Fairgrounds on Thursday, August 14, 4:00–7:30 p.m. (see pg. 2). Stop by for food, discounted ride bands, science demos, and a moonwalk. It's fun for the whole family. On a professional note, we celebrate our members' scientific interests with our annual Fall Scientific Meeting, scheduled for Friday, October 24. The call for posters has already gone out, so please consider presenting your work at our meeting. This is a great venue to make local connections and discuss your work with a new crowd.

Finally, we are accepting nominations for our elections in the fall. Thank you to those of you who have agreed to run. If you would like to get more involved in the Section, please consider running for a position. Contact Kevin Lewis (kevin.d.lewis@dowcorning.com), chair of Nominations and Elections, for more information.

Doree J. Yontz

Calling all ACS, MMTG, YCC, and TECH!

By Jennifer Dingman

Please join us for the 8th annual ACS Professionals Day at the Midland County Fairgrounds on Thursday, August 14, 2008, from 4:00–7:30 p.m. The fun starts at 4:00 p.m. in the Brown Picnic Building located on the north end of the Grandstand. This year members will enjoy free popcorn, hot dogs, sno-cones, and beverages as well as many exciting things for the “kids” in your life—science demos, grab bags, and a moonwalk.

We will be selling unlimited VIP ride bands for a discounted price of only \$12 this year. The VIP ride band allows the wearer to have unlimited ride access for 9 full hours instead of the normal ride bands, which are \$17 and good for only 4.5 hours. If you would like to purchase those ride bands early and take advantage of the afternoon prior to the event please contact Jennifer Dingman at Dow Corning (496-8290, j.dingman@dowcorning.com) or Deb Mendrick at Dow (638-3094, dmendrick@dow.com).

Mark your calendars now to join us for an exciting evening of learning, food, and fun!

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**Good
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at
Work**

Professor Manoj Chaudhury to be FSM Keynote Speaker

By Mike Owen

Professor Manoj K. Chaudhury, Franklin J. Howes Distinguished Professor at Lehigh University, will be giving the keynote address on “Surface Modification of Organic and Inorganic Materials” at the 2008 Midland Section Fall Scientific Meeting, October 24, at the Midland Center for the Arts. Dr. Chaudhury spent part of his career in Dow Corning R&D in Midland. He is the recipient of the ACS V. K. LaMer Award, the Herbert D. Doan award for Excellence in Research, and the Adhesion Society award for Excellence in Adhesion Science. Among his collaborations/consultancies are Boeing, Dow Chemical, and the National Starch and Chemical Co.

The theme for this year’s FSM is “Materials for the 21st Century,” emphasizing photovoltaics, chemical sensors, and nano-structured surfaces. The three co-chairs of the meeting are Petar Dvornic, senior research scientist and professor of polymer chemistry at Michigan Molecular Institute, Mustafa Mohamed, senior chemist at Dow Corning Corporation, and Mike Owen, Dow Corning scientist emeritus and adjunct professor at MMI. The meeting will be held at the Midland Center for the Arts beginning with lunch at 11:00 a.m. followed by welcome and awards presentation at noon and the keynote address.

A poster session from 2:00 p.m. to 3:00 p.m. will provide participants with an overview of research being conducted by a variety of institutions in the Mid-Michigan area. Dow Corning is sponsoring a \$500 prize for the best undergraduate poster.

The poster session will be followed by three mini-symposia on the specific topics of photovoltaics, chemical sensors, and nano-structured surfaces. There will also be a vendor exposition throughout the afternoon. More information is available from the FSM web pages at <http://membership.acs.org/m/midl/>.



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Call for Posters

2008 Fall Scientific Meeting

By Mike Owen

Please consider presenting a poster at the Fall Scientific Meeting, which will be held on Friday afternoon, October 24, 2008, at the Midland Center for the Arts. Abstracts are being accepted now through September 19, 2008. The theme for the meeting will be “Materials for the 21st Century.” However, posters covering all areas of chemistry and chemistry-related topics are invited.

Each abstract should contain title, author(s) and author(s) affiliations, and abstract body text. The format specifics include:

- Single spacing with blank line between title and author and between author and abstract body text.
- Times New Roman typeface in 12-point size (or comparable).
- Submitted as an e-mail attachment in Microsoft Word (preferred) or other conventional word processor format.
- 225 words or fewer.
- Presenting author’s name underlined. (Note: The e-mail address of the submitter will be the default contact person for all additional information.)

E-mail all abstracts to Brad Fahlman (fahlm1b@cmich.edu). Address questions to chair Mike Owen (michaelowen01@chartermi.net, 989-631-7339). The FSM web pages are available from the Midland Section web site at <http://membership.acs.org/m/midl/>.



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MMTG Learns about Rheology and Beer

By Dana Fuerst

The Mid-Michigan Technician Group (MMTG) has been very busy since our last update. On May 8, we hosted Kadine Mohomed, Ph.D., of TA Instruments for a lunch-n-learn session. Dr. Mohomed covered the rheological capabilities of TA Instruments thermal equipment and how to determine which instrument would work best for different sample types. Lunch and training were provided for free by TA Instruments! This event was open to not only MMTG members but anyone interested in attending. Forty-five people attended the event and learned about the TGA, DSC, TMA, and DMA.

The next event was held on June 12 and was a two-part membership drive/social event. The first part of the event was a lunchtime talk on the history of beer that was free to members and \$5 for non-members. The Brewmaster and President of the Tri-City Brewing Company gave the talk to 32 members as they enjoyed a lunch from Kentucky Fried Chicken. Attendees learned interesting facts about beer and the brewing business.

That evening, members and guests were invited to attend a private tour



Kadine Mohomed, Ph.D., and Sales Representative Bob Milliken, both from TA Instruments, presenting at the Lunch-n-Learn Session.



Kevin Peil, brewmaster and president of the Tri-City Brewing Company, giving the History of Beer lunchtime talk to MMTG members.

of the Tri-City Brewing Company to see the process in action. Those who attended enjoyed a pizza dinner and unlimited refills of beer for the evening, a souvenir glass, and the tour. Members who recruited a new member paid only 1¢ for the event! Members who did not recruit a new member were charged \$5 and non-members were charged \$10.

Eighty-seven people attended the event and enjoyed an evening with great beer and friendly conversation. Those attending had the opportunity to taste the grains used for brewing and try out each of the four beers currently being brewed—many left with at least one favorite. Over 25 new members joined MMTG as a result of these two events.

The next event is scheduled for Wednesday, October 8, and is a lunch-time career development talk to be given by Dow Chemical's Curt Theriault and Dow Corning's Dave Gantner. Each speaker has made their way to the top of their company's ladder for technicians and will be speaking to attendees about how they have managed the changes over the years and still been successful in their careers. This event will be held at the Delta College Main Campus and will be open to anyone interested in attending. This event will be funded by the Equipping the 2015 Chemical Technology Workforce mini-grant that MMTG received from the National American Chemical Society. Contact Dana Fuerst at dfuerst@dow.com for more information on this event or on joining MMTG.



MMTG Past Chair Deb Mendrick checking out the bottling line at the Tri-City Brewing Company dinner tour along with other attendees.

*Call for Nominations***2008 Midland Section Awards***By Scott Gaynor*

The Midland Section of the American Chemical Society is soliciting nominations for its fall awards to be presented at the 2008 Fall Scientific Meeting (October 24, Midland Center for the Arts). The following awards are seeking nominations:

Outstanding Achievement and Promotion of the Chemical Sciences

Each year the Midland Section honors an individual residing within the Section's geographical area who has demonstrated outstanding achievement and promotion of the chemical sciences. This award recognizes dedication and service to the chemical profession. The recipient need not be an ACS member. Nominations should include a biographical sketch, list of pertinent publications, evidence of professional growth and involvement, and letters of support from colleagues. Previous recipients are:

1976	Turner Alfrey, Jr.	1992	Donald A. Tomalia
1977	Etcyl H. Blair	1993	Dale J. Meier
1978	David C. Young	1994	Philip T. Delassus
1979	Vernon A. Stenger	1995	Duane B. Priddy
1980	Daniel R. Stull	1996	Hans G. Elias
1981	Bob A. Howell	1997	Ludo K. Frevel
1982	Wendell L. Dilling	1998	Patrick B. Smith
1983	Donald R. Weyenberg	1999	David E. Henton
1984	Edwin P. Plueddemann	2000	Steven J. Martin
1985	Raymond P. Boyer	2001	Edwin C. Steiner
1986	Stanley P. Klesney	2002	Thomas J. Delia
1987	Warren B. Crummett	2003	Robert M. Nowak
1988	A. Lee Smith	2004	Herbert D. (Ted) Doan
1989	Do Ik Lee	2005	Mike Owen
1990	Joseph E. Dunbar	2006	Robert E. Kohrman
1991	Thomas H. Lane	2007	Petar Dvornic

Outstanding Service to the American Chemical Society

The Section sponsors an annual award to recognize outstanding service to the Midland Section of the ACS. This award recognizes achievement in the promotion of the goals of ACS. Nominees shall be members of the Midland Section. Nominations should include a biographical sketch, a history of service to the Midland Section, and supporting letters from fellow ACS members. Previous recipients are:

1989	David C. Young	1999	Theodore E. Tabor
1990	Linneaus C. Dorman	2000	Peter and Patricia Dreyfuss
1991	Donald R. Petersen	2001	George W. Eastland, Jr.
1992	Wendell L. Dilling	2002	Joan Sabourin
1993	Bob A. Howell	2003	John Blizzard
1994	Eldon L. Graham	2004	Steven Keinath
1995	Gretchen S. Kohl	2005	Ann Birch
1996	Fran K. Voci	2006	Philip Squatrito
1997	Thomas H. Lane	2007	David Stickles
1998	Vicky S. Cobb		

Outstanding Chemical Technician

The Section presents an annual Outstanding Chemical Technician Award to an individual who has demonstrated an extremely high degree of professionalism as a chemical technician. The ACS defines a chemical technician as a person whose training includes successful completion of a two-year post-high school level chemistry curriculum leading to an associates degree, or the equivalent course work in a baccalaureate program, or the equivalent knowledge gained by experience. The primary work of a chemical technician is conducting experimentation and/or correlating information to help solve chemical problems and/or discover new chemical knowledge. Criteria used to judge the award include job skills, safety, teamwork, leadership, publications and presentations, reliability, communication skills, and additional professional and community activities. Nominees must have worked for five years as a chemical technician. Chemical technicians do not need to be a TECH Division Affiliate or ACS member to be eligible for this award. Nominations should include a biographical sketch and supporting letters that address each of the criteria above. Previous recipients are:

1997	Connie J. Murphy	2003	Robert D. Krystosek
1998	David Stickles	2004	Sharon Allen
1999	Ronald L. Good	2005	Bill Rievert
2000	Kurt A. Bell	2006	Margo McIvor
2001	Gordon R. Roof	2007	Debbie Bailey
2002	Cynthia J. Gould		

Nominations for all three awards are invited. The deadline for receipt of nominations and all supporting materials is September 19, 2008 (electronic/e-mail is preferred). Nominations, questions, or requests for more information should be directed to:

Scott Gaynor, Awards Committee Chair
The Dow Chemical Company

1603 Bldg.
Midland, MI 48674
Phone: 989-638-1806; Fax: 989-636-6454
e-mail: sggaynor@dow.com

If you have questions or need additional information, please contact Scott directly. Nominators should provide their address and phone number in case the committee needs to contact them. The Awards Committee encourages all Section members to nominate deserving colleagues and appreciates your efforts in helping these individuals receive recognition for their efforts. We look forward to hearing from you!

Call for 2009 Officer Candidates

By Kevin Lewis

Here is your chance to become more involved in your local ACS section. We need candidates to run for the following positions for 2009:

One-Year Terms

Chair-elect
Secretary
Treasurer
Chair, Nominations & Elections
Director (position vacated, 1 year remaining)

Three-Year Terms

Directors (3 slots open)
Councilor
Alternate Councilor

If you are interested in running for any of these positions or know someone who might be interested, please contact Kevin Lewis at 989-496-8141 or kevin.d.lewis@dowcorning.com. If you have any questions regarding what the positions entail, contact your current officers on the Leaders page of the Midland Section web site <http://membership.acs.org/M/Midl/>.

Nominations from the floor will be accepted at the August 18 and September 15 board meetings (see the calendar on the web site for details). Please be aware that any nominees will have had to accept the nomination prior to their announcement from the floor. Also, please consider your involvement within the Midland Section—if you're not running for a board position, look into other great areas for you to serve.

Committee members include Kevin Lewis (chair), Brian Marinik, Angelo Cassar, and Dorie Yontz.

Dow Family Experiences a Memorable Reunion

By Angelo Cassar

Note: The Dow Family Reunion was held at the Dow 1790 Building on June 27, 2008, with a little over 100 family members present. The Midland Section was asked to conduct science demonstrations for the reunion. ACS folks involved in planning and conducted the Section contribution included John Blizzard, Dave Stickles, Angelo Cassar, Gretchen Kohl, Wendy Flory, and Dorie Yontz. Below is a thank you letter from Smallwood Holoman, Dow Public Affairs.

Thank you for your participation in the 2008 Dow Family Reunion visit here at Michigan Operations last Friday. While the Family has not visited us for some time (I believe some 5 to 7 years ago), some remember their time with us as not being “very exciting”! They toured several manufacturing plants, and then called it a day.

Well, the family coordinator, Sarah Whiting, and several other family descendents, commented that this event “exceeded all expectations” and that our total package of information and entertainment was by far the best presentation of Dow that they had experienced! The Business and Market Facing exhibits were informative. The Midland Section of the American Chemical Society’s science demonstrations were a huge hit to the young munchkins and the young at heart. Way to go, ladies and gents for truly engaging all of our visitors!



Gretchen Kohl assists two young reunion participants.

I believe we have set a standard that meets their needs and expectations. While I did not get the names of all of your participants, please cascade this note of thanks to those in your group that gave of their time and effort.

Again, thanks for your help in making this event a success.

Section Leaders Participate in Industry and Education Meeting

From National ACS

Representatives from Southern California companies and chemistry-based technology programs gathered May 9, 2008, to discuss their respective needs and opportunities for chemical technicians.

Hosted by Pfizer Inc. at its La Jolla, California, campus, the gathering was part of the ACS Chemical Technology Program Approval Service (CTPAS) annual meeting. CTPAS reviews and grants ACS approval to qualified chemistry-based technology programs. Because partnerships with industry are crucial to the success of chemistry-based technology programs, CTPAS invited representatives from local biotechnology and pharmaceutical companies, as well as from chemistry-based technology programs, to its open meeting.

The open meeting started with a presentation by Director of Public Relations Dennis Ryan on the development of pharmaceuticals at Pfizer. CTPAS chair Joan Sabourin (co-chair of Sci-Fest for Midland Section) followed with a presentation on the new, streamlined ACS approval process for chemistry-based technology programs and the importance of partnerships in technician education. CTPAS consultant Connie Murphy (a director for Midland Section) then moderated two discussion panels. In the first panel, industry representatives discussed the roles technicians play in their organizations, what skills technicians need, and how they recruit technicians.

In the second panel, education representatives discussed how their programs prepare students for careers as chemical professionals. For example, such programs incorporate hands-on experience and employability skills into the curriculum. In fact, some local companies require newly hired bachelor's graduates to attend an associate-level chemistry-based technology program to learn the skills they need.

The open meeting was organized by CTPAS member Terri Quenzer, a research chemist for Pfizer. Industry representatives included employees of the following companies:

- Amylin Pharmaceuticals
- Arena Pharmaceuticals
- Conatus Pharmaceuticals
- Ligand Pharmaceuticals
- Pacific World Discovery
- Pfizer Inc
- Proven, Inc.
- Raylight Corporation/Chemokine Pharmaceutical Inc
- San Diego Workforce Partnership

- Shanghai Medicilon Inc.

Academic representatives included educators from the following institutions:

- Miramar College
- San Diego Mesa College
- Southwestern Community College
- Mt. San Antonio College

ACS Director of Education Mary Kirchhoff also attended the meeting.

The open meeting represented the first time CTPAS has actively engaged members of the industrial and academic communities on the subject of technician education and professional development. Participants discussed the potential mutual benefits of partnering and indicated interest in continuing these discussions after the meeting. CTPAS, in turn, learned about the unique needs of the biotechnical and pharmaceutical industries; given the growth in these areas, CTPAS expects to be evaluating such programs in the near future.

The success of this event will have national impact. Plans are already underway to conduct future CTPAS meetings in a similar manner in other regions of the country to encourage partnerships among industry, academia, and the community.

For more information on ACS approval of chemistry-based technology programs and the role of partnerships in education, contact Blake Aronson in the ACS Office of Technician Education and Resources (202-872-6108, b_aronson@acs.org).

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In Past Issues of *The Midland Chemist*

By Wendell L. Dilling, *Midland Section Historian*

- **40 Years Ago This Month**—In *October Seminar, Chain Transfer in Anionic Polymerization*: “Dr. Arnold L. Gatzke from the Physical Research Laboratory of The Dow Chemical Company will present the first seminar of the 1968-1969 ACS seminar series at the Dow Library Auditorium, 566 Bldg, on Monday, October 7, 1968 at 7:30 p.m. The subject of Dr. Gatzke’s talk will be ‘Chain Transfer in Anionic Polymerization’. A method is now developed for detecting and quantitatively measuring small chain transfer constants in anionic polymerization. Although the degree of chain transfer may be small it does have a profound influence on molecular weight and molecular weight distribution of high molecular weight polymers.”
- **30 Years Ago This Month**—In *Results of Questionnaire on the Future of JACS* by Wendell L. Dilling: “The results of the questionnaire, which are discussed below, are based on 209 replies, 192 from industrial chemists and 17 from academic chemists. I would like to thank those who responded to the questionnaire. Many included comments and a few contributed lengthy discussions regarding various aspects of JACS. These comments and questionnaire results will be of value to the Society Committee on Publications in our deliberations on the future of JACS.”
- **20 Years Ago This Month**—In *Michigan Molecular Institute – Dedicated To Advanced Research and Education* by Jim Burlingame: “Michigan Molecular Institute (MMI) will celebrate its 25th anniversary in 1989 ... and it may well be one of Midland’s best kept secrets. MMI was founded in 1964 under the auspices of three Midland-based foundations with the directed purpose of providing the necessary facilities to meet both research and educational objectives. An important factor in establishing the Institute was to help reduce the “brain drain” from the Midwest ... the migration of technical expertise to the East and West Coasts.”
- **10 Years Ago This Month**—In *Good Day, Chemists!* by Art Smith: “With this issue I’m departing from the recent practice of calling the chair’s contribution to *The Midland Chemist* “From the Chair” and instead, for the rest of my term I’ll use this opportunity to simply greet you as fellow chemists. My reasons for doing this aren’t really complicated: for one thing, it’s the way I greeted my students at Delta College for the better part of a quarter of a century and it just seemed to fit. After all, they were in a very real sense, colleagues – fellow chemists, as it were – since they, too, had made a serious commitment to studying and trying to learn something about this most amazing science which has captured the imaginations of each of us through the years. But also, it’s a recognition that you who read this are truly my colleagues as well.”

Important Dates on the ACS Midland Section Calendar

- Aug. 14 Midland Section Professionals Day, Midland County Fairgrounds, 4:00 p.m.-7:30 p.m. (Jennifer Dingman, 989-496-8290, j.dingman@dowcorning.com, or Deb Mendrick, 989-638-3094, dmendrick@dow.com)
- Aug. 18 Midland Section board meeting, Midland Center for the Arts, 7:00 p.m., Board Room (on lower level) (Dorie Yontz, dyontz@dow.com, 989-636-2571)
- Sep. 8 Deadline for October issue of The Midland Chemist (Ann Birch, ann.birch@edittech-mi.com, 989-835-2856)
- Sep. 15 Midland Section board meeting, Midland Center for the Arts, 7:00 p.m., Board Room (on lower level) (Dorie Yontz, dyontz@dow.com, 989-636-2571)
- Sep. 15 Deadline for nominations for 2009 officers (Kevin Lewis, 989-496-8141, kevin.d.lewis@dowcorning.com)
- Sep. 19 Deadline for abstracts for Fall Scientific Meeting (Brad Fahlman, fahlm1b@cmich.edu)
- Sep. 19 Deadline for nominations for fall Section awards (Scott Gaynor, 989-638-1806, ssgaynor@dow.com)

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