



*Ballot for Section Officers Due October 25, p. 15*



*The award-winning Midland Section! Accepting awards at the Boston ACS National Meeting were (l-r) Gretchen Kohl, Phyllis Anderson, Bob Howell, and Dave Stickles.*

# THE MIDLAND CHEMIST

Volume 39, Number 7  
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*Chair Column*

## Thoughts on Crossing the Atlantic

As I write this, I'm waiting to board an aircraft that will take me to Chicago, where I'll board a larger one that will take me across the Atlantic to London. The first thought that comes to mind is the fact that it was a year ago that I took my most recent trip overseas. That trip also took me to Europe. It was started a week earlier than this one, but I was in England during this week also. And what is significant about that? Nothing, except that was the week of September 11. The day of the horrible terror attacks on America. The day over 3000 people died due to terrible acts of destruction. That was the day that changed America, both in terms of the "erasure" of the twin towers in New York, as well as the changes in America's defense of freedom.



Pat Cannady, Chair  
ACS Midland Section

But what about the time between now and when you read this in the October issue of *The Midland Chemist*? What about the things that may or may not have happened? The best thing that can be said is, don't worry about it. We've already undergone change directly due to the events of September 11, 2001. We'll undergo further change, too. So what can we chemists do? Just keep on! That's what must be done.

Now for my second thought. I've heard that the American Chemical Society has given our members the fine benefit of five out of six awards for which we were nominated. These are ChemLuminary Awards, given to the Midland Section for several of our activities last year. Very good!

Something you may want to look for is coming up quite soon. October 11, 2002, is the date for our next Fall Scientific Meeting. Be sure to give this annual event a stop. This year, as opposed to the last several years, the meeting will be held on Friday afternoon instead of on a Saturday. Be sure and check the goings-on, there'll be plenty to check out.

Finally, looking just over the horizon into next month is Sci-Fest. This award-winning program is made possible by volunteer workers from the Midland Section giving time and work to make science—especially chemistry—fun and exciting to the students in our area. If you have time to help this year, give the organizers a call and volunteer. If you have kids yourself, or know someone who does, organize an expedition! Taking the kids is fun—I know, I've done it myself.

*Pat Cannady*

## County Fair Activities Reach Kids, Families

*By Dave Swenson and Wendy Mathews*

**T**he Mid-Michigan Technician Group once again put on an excellent set of demonstrations the evenings of August 12 and 14 at the Midland County Fair. The MMTG effort was organized and led by Wendy Mathews with close team support from Wendy Mallory, Dave Stickles, Penny Wallace, Karen Syverud, Kris Syverud, Sue Perz, and Debbie Bailey. The theme of this year's show was "Chemistry Keeps Us Clean."

The show began with an expert glassblowing demonstration put on by Tim Drier, who mesmerized young and old alike with his ability to transform bland pieces of glass into amazing works of art. Dave Stickles and Mike Ferrito demonstrated the formation of bubbles with some modern bubble-blowing equipment, and discussed how the properties of a material that cause bubbles to form are relevant to their capabilities in cleaning. They showed how boosters such as borax work and demonstrated detergent suppression by salty water.

A short video on tooth care and an associated poster discussion on the life cycle and chemistry of toothpaste were carried out by Wendy Mathews. A similar poster on hair cleaning using electron micrographs supplied by Debbie Bailey demonstrated the difference between clean and dirty hair. It seems this had an impact on the children in the audience, and there were probably no young audience members who had to be told twice to shampoo that week!

No fair demonstration is complete without preparation and play with colored slime, which provided a nice break between segments and helped keep the audience focused between set-ups. Even "adult" children love this part of the show.

A demonstration of carpet cleaning using "Oxy Clean" required audience assistance. For this, children were given squirt guns with tea or grape juice and told to spoil a piece of carpet. We did not have to ask twice. The MMTG crew showed how a stain can be removed by oxidizing detergent-based cleaners with a 1-2 punch. The grape juice was not as cooperative as the tea, but it showed the principle.

Karen Syverud capped the central show by dressing up in "clean-room" garb and discussing how cleaning agents are needed to prepare computer chips. This portion of the show culminated with a demonstration, again with audience participation, of cleaning methods using gallon jug (washing machine) technology. The younger crowd was captivated by this demonstration, in part because they were active participants.

The grand finale was the ammonia fountain demonstration run by Wendy Mallory. All in all, attendance was good despite the awful tem-

peratures inside and outside the building and the competition from the Brooks and Dunn concert.

Handouts were for the most part related to cleaning. This year, Wendy Mathews and her crew acquired toothbrushes and toothpaste samples donated by area dental offices and providers. Also obtained were compressed, paper-thin, pig-shaped, dry sponges, water bottles, and glow necklaces for distribution with advertisements of the upcoming Sci-Fest in October.

Volunteers for the show included:

Dave Stickles	Wendy Mallory	Wendy Mathews
Penny Wallace	Dave Swenson	Debbie Bailey
Karen Syverud	Kris Syverud	Karen Malusi
Nathan Malowinski	Sue Perz	Jackie Claypool
Janet Smith	Don Miller	Becky Swanson
Cathy Curtis	Stephanie Anderson	Kerry Pacholke
Janet Allen	Mike Ferrito	Dana Bitzer
Sara Shinavar	Tim Drier	Pam Slavings

Great job, MMTG, and thanks for a professionally run show! We would also like to thank all of the supporters who helped make these demonstrations a success. Businesses in the Midland area that helped by donating their time and supplies to ensure that the children had an educated and fun experience at this event include:

- James R. Bakeman & Associates
- Delta Dental Fund
- Gentle Family Dentistry
- Cynthia A. Skiba, DDS
- BOC Gas
- Michigan Airgas Inc
- Dynamite Graphix



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# 2002 Fall Scientific Meeting

ACS Midland Section

*More reactions on a smaller scale,*  
 **FASTER**


***FRIDAY AFTERNOON***

Friday October 11, 2002

12-5 PM

EDC of Dow Chemical

Lunch Provided by Dow Chemical Co.



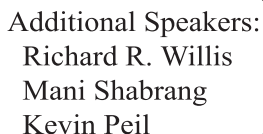
Keynote:  
Mike Ramsey  
ORNL



Exposition



Poster Session



Additional Speakers:  
Richard R. Willis  
Mani Shabrang  
Kevin Peil

## SCHEDULE

Registration, lunch, posters, exhibition	12:00 – 5:00 pm
Welcome, Awards	2:00 – 2:30 pm
Key-note Address	2:30 – 2:55 pm
Oral presentations (3 concurrent sessions)	3:00 – 5:00 pm
Social at Frick's	5:00 - ???

**<http://membership.acs.org/M/MidI/FSM2002HOME.html>**

## Awards Presented to Midland Section at Boston Meeting

*By Angelo Cassar*

Since 1999, the American Chemical Society (ACS) has honored the efforts of volunteer members through the ChemLuminary Awards. The awards recognize participants in ACS Local Sections and Divisions whose efforts have helped to achieve excellence.

The Midland Section of the American Chemical Society received five major ChemLuminary Awards and one Certificate of Excellence at the 224<sup>th</sup> National Meeting in Boston, Massachusetts. Here they are:

The ChemLuminary Award for *Outstanding Performance by Local Section Medium Large Size Category* was received by the Midland Section. Twenty-two local sections competed within their size category for the four available ChemLuminary Awards for Outstanding Performance by a Local Section. This

award can only be described as the equivalent of an "Olympic Gold Medal" for a local ACS section. The Midland Section competed with three other sections in the Medium-Large Size Category. The following is a quote from the award program:

"The Midland Section sponsored "Sci-Fest," a series of exhibitions and activities relating to chemistry. This year Sci-Fest had as its theme "Celebrating Chemistry and Art." Exhibits and presentations included a poster explaining the colors of aurora borealis, hands-on-exploration of fluorescence and phosphorescence of natural and artificial objects, and a guitar player demonstrating the art of acoustics. The event attracted over 900 attendees. A 4-minute video segment regarding the event was aired on CNN Headline Hometown News in three nearby communities—Bay City, Midland, and Saginaw. Following the event a volunteer thank-you letter was published in two local newspapers. This is the eighth time the Midland Section has won this prestigious award! Congratulations to all



*Dave Stickles (at right) accepted the "Outstanding Performance by Local Section Medium Large Size Category" from ACS President Eli Pearce. Editor's note: On the cover of MC, Vol. 39, No. 7, Dave was incorrectly identified as accepting the Technician Affiliate Group award.*

active members of the Midland Section! And a special congratulations for the 2001 Midland Section chair, George Eastland, and 2001 cochairs of the Sci-Fest event, Dave Stickles and Joan Sabourin!"

The ChemLuminary Award for *Division Recognition* was received by Chemical Technicians (*TECH*): This award recognized innovation and outstanding service to members of a division. "The Division of Chemical Technicians has provided excellent member support. TECH continues to be successful in attracting members in academia, government, and industry." Many members of the Midland Section contributed to this award including Connie Murphy, Wendy Flory, Dave Stickles, Janet Smith, and John Enteman.



*Gretchen Kohl accepted the "Innovative Initiative in Polymer Science" award. Gretchen is with Tom Smith, chair of the Polymer Division.*

The ChemLuminary Award for *Innovative Initiative in Polymer Science* was received by the Midland Section. This is the first year that the ACS Polymer Division has given this award. "Twelve hands-on-experiments were developed by the Midland Section to meet teacher demands for continuing polymer education. Teacher-training sessions were held by Midland Section members to provide teachers with experiments and the necessary tools to teach polymer education at the K-12 level." Some of the members of the Midland Section who contributed to this award include Gretchen Kohl, Marvin Tegen, Joan Sabourin, Mike Ferritto, John Blizzard, Karol Childs, Todd Hogan, Margo McIvor, Joan McMahon, Paul Popa, Barb and Chuck Roth, Dick Skochdopole, and Janet Smith.

The ChemLuminary Award for *Best Overall Local Section Committee on Minority Affairs* was received by the Midland Section. "Collaborations have been established with the Hispanic Coalition of Saginaw, "Project SOAR," the GeoAfrocentric Program of the Saginaw School District, Professional Advancement of Black Chemists and Chemical Engineers." Some of the people who contributed to this award include Lin Dorman, Shari de Beauclair, Deb Bergstrom, Keith Connerly, Walter Foster, Mike Garlick, Charles Infanti, Justin Keyes, Sandra Parker, and David Quesada.

The ChemLuminary Award for *Technician Affiliate Group Award* was received by the Mid-Michigan Technician Group. "The group used electronic media for conduction elections and added several new programs,



including recognition awards, lunch- time seminars on a variety of topics, a technician mentoring social, and a program for high school and middle school teachers to learn about job opportunities for chemical technicians."

A Certificate of Excellence for the *Best Activity or Program in a Local Section Stimulating Membership Involvement* was awarded to the Midland Section. "The 57<sup>th</sup> Midland ACS Fall Scientific Meeting was held on the grounds of The Dow Chemical Company in Midland, MI, and focused on the theme, "Publishing." Highlights of the meeting were a keynote address by Allen J. Bard, former editor-in-chief of the *Journal of the American Chemical Society*, as well as a panel discussion where members of industry and academia offered their thoughts on some of the benefits and challenges of publishing scientific work." Some of the members who contributed to this award include Fred Vance, Buford Lemon, Tim Cabelka, Gretchen Kohl, Barb Hammond, Dick Van Effen, Ann Birch, Dave Karpovich, Bob Krystosek, Alex Morgan, Kristine Danowski, Angelo Cassar, Jim Malek, Pete Dreyfuss, Dave Mitchell, and Ryan Max.

August 20, 2002, in Boston, Massachusetts, was a night to remember for the members of the Midland Section! All members of the Midland Section can be proud of the volunteer efforts that were recognized in Boston!



*Bob Howell (at left) accepted the "Best Overall Local Section Committee on Minority Affairs" award. With Bob is Eli Pearce and another award winner.*



*Phyllis Anderson, past-chair of MMTG, accepted the "Technical Affiliate Group" award from Attila Pavlath.*

## Boston: A Rewarding Experience for the Section!

*By Gretchen Kohl and Bob Howell, Section Councilors*

Getting to Boston proved to be the biggest challenge for many of us from Midland Section, as the flight out of Detroit was cancelled, and the next flight out arrived just in time for Friday rush hour, in 90°+ heat. Boston traffic is almost as famous (or infamous) as their legitimate claim to great seafood, historical sites, baked beans, and the discovery of ether as an anesthetic. Well, okay, the ether discovery may be less than famous, but we'll make it so for you in this issue of *The Midland Chemist* (pg. 11). But, once there, Boston proved to be most rewarding!



*Gretchen Kohl and "Boston" Bob Howell schmooze with MilliMole, the mascot for National Chemistry Week.*

The big news, covered in detail in another article in this issue, is the Section winning five out of the six ChemLuminary Awards for which we were nominated. Just being nominated for outstanding performance is a feat. There are 189 local sections, and we're glad to report that we continue to win more than our share, as would be determined by random statistics. This is the result of very hard work by many members of the Section, funding from The Dow Chemical Company and Dow Corning Corporation, and matching grants from ACS NCW. We were honored to accept two of these awards on behalf of the Section. It is very rewarding to be councilors for this Section, as its accomplishments are well-recognized by ACS staff, governance, and at events at these ACS meetings (even by MilliMole!), including recognition during the actual Council meeting.

Highlights of the Council meeting were:

1. In addition to Charles ('Chuck') Casey and Alvin Kwiram, the two candidates for 2003 ACS president-elect selected by Council, in Orlando, Ann Nalley was added as a petition candidate. Please review the election materials on all three candidates when they are mailed to you with your ballot or on their websites, and please vote!
2. The ACS is financially strong, but the reserves are hurting from lower return on investments (like the rest of us) and from lost advertising revenue. For 2002, we will experience a deficit of more than \$2 million.

On the positive front, *Chemical Abstracts* (CAS) and the ACS journals are doing well and SciFinder reports that they are getting a new school subscription per business day, on average. An initiative to realign the budget called SEMS (Strategic Expense Management System) has started with a mission to balance the budget by 2004. Next year is also projected to run about \$1 million “in the red.” Of interest to the Section, the NCW matching grant money has been cut, but not before all requested 2002 funds were granted. The Midland Section has received its 2002 matching funds. This might impact our programs for next year. The ACS Board will meet in December to vote on whether any money will be available for 2003.

3. The only really controversial issue at Council meeting turned out to be the petition to increase the size of society committees. If passed, the range of the committee size would increase from 9–15 to 12–20 members. The two Society Committees affected would be Budget & Finance and Education, as all other committees are either not bound in size by by-laws or have been voted to the 12–20 range by a previous petition. Increasing committee size allows more councilors to serve on committees, though the Committee on Committees (ConC) is currently addressing committee restructuring, and so this petition was considered to be premature and/or unnecessary by some. The Midland Section Board instructed us to vote **for** this petition. This petition did end up in lengthy discussion and was emotionally supported, pro and con, and as it required a two-thirds majority, it squeaked through with 67.6% of the 389 councilors voting “aye,” as cast



*The poster for the Midland Section always attracts attention. Section members can be proud of what the poster represents.*

by a show of hands. An appeal for a paper ballot re-vote was disallowed. A petition for consideration on funding for divisions and local sections also received much discussion in caucus, council, and the hallways, with a promise that more thought will go into the final petition before the New Orleans, Spring Meeting.

4. The Meetings and Expositions (M&E) Committee reported that the Bos-

ton ACS meeting surpassed all expectations, having over 17,000 registered by Wednesday morning's Council meeting (compared to less than 14,000 in Orlando), including about 12,500 chemical professionals, over 2600 exhibitors and about 2000 guests. We were told that this makes the ACS convention the largest convention of any kind to be held in Boston since the 9/11 tragedy. ACS attendees were scattered over the 22 official hotels, but with shuttle buses running every 15 minutes and many of the hotels connected by mall to the Hynes Convention Center, the only logistics problem was too many things to do at the same time. M&E also reported that for the 2003 National Meetings standard AV equipment would *not* include slide projectors. Those submitting abstracts will need to have overhead transparencies or be prepared to use a screen shooter. The Boston Meeting Exhibition had been sold out since the Spring ACS Meeting in Orlando, with 309 companies occupying 409 booths in attendance.

5. The National Employment Clearinghouse (NECH) had 512 jobs listed by 270 employers, with 1242 candidates for a total of 4667 interviews (Orlando had 131 employers, 969 jobs, for 867 candidates, resulting in 3,000 interviews). For the first time, the clearinghouse was fully automated and "paperless." With this upgrade, employers and job candidates can access the system 24 hours a day, from any computer.

Earlier in the week, Bob attended his Patent and Related Matters Committee meetings and other technical sessions, and Gretchen spent a very full day attending meetings of the Committee for Environmental Improvement (CEI) and others at NCW workshops. A review of these activities will be posted in a future issue.



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# What Does Ether Have To Do With Chemistry?

*Article by Angelo Cassar*

Since I am the publicity chair for our Section and also the husband of one of our councilors (Gretchen Kohl), I decided to attend the 224<sup>th</sup> National ACS Meeting in Boston. I took a number of pictures at the meeting, including the proud pictures of several of our members accepting ChemLuminary awards.

One of the suggested assignments given to me, at the Section Board meeting was to take a picture of the statue of the inventor of ether. The statue supposedly stood in the beautiful Boston Public Gardens. As I sat on the bus on the way to the Public Gardens, I began to contemplate an article about ether. Memories of a Modern Physics class surfaced when I remembered that scientists once believed that all waves needed a medium to propagate. A sound



*The inventor of ether? Will we ever know?*

wave may travel through the medium of air. An ocean wave travels through the medium of water. It was reasonable to believe that light had its own medium and scientists called this medium “ether.”

However, this medium for light, called ether, could not be proven to exist! Many attempts were made to prove ether’s existence including the famous experiments by Michelson-Morley. FTIR folks have heard of their neat interferometer, which they attempted to use to find the effect of ether on the speed of light in perpendicular directions. It was left for Einstein to show that the reason ether could not be detected is because “ether” does not exist.

Now back to Boston. As I entered the Public Gardens, I wondered, “Who invented this hypothetical medium?” Or should we more correctly say, “Who invented the erroneous concept of this substance?” For the article, I thought I could compare ether with the other hypothetical concept of phlogiston. I could continue to point out that science is based on models, some of which must be discarded for better models. I could continue to say that it’s an old story that dates back to at least Aristotle.

As I strolled through the park, I examined every statue looking for this



elusive inventor of ether. Much to my surprise, I finally found the statue, but it did not refer to the “ether” I expected. The inscription below this statue read:

“To commemorate the discovery that the inhaling of ether causes insensibility to pain. First proved to the world at the Massachusetts General Hospital in Boston. October A.D. MDCCCXLVI.”



*A view of the Boston Public Gardens.*

As I walked out of the park, with a face of disappointment, I remembered what a college physics professor once said: “Science has to do with knowing what does not exist as well as what does exist.” Today I learned both the media of air and water exist. I also learned that the medium ether and the statue for the “inventor” of the medium do not exist!

Upon returning home, I did a search of this statue on the Internet. I discovered that the sculptor, John Quincy Adams Ward, attempted to depict a “Good Samaritan” comforting someone afflicted with pain with the soothing chemical they called ether. It is believed that the dentist, Morton, first used the wonder gas in 1846 at Massachusetts General.

My original question on the bus “What does ether have to do with chemistry?” became as clear as the light through my bedroom window. Our bodies are composed of chemicals that will react with external chemicals. By using ether, the medium of surgery has advanced because of the chemistry of ether and our bodies.

Now I see the light.

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# Thoughts on Downsizing and the ACS

By Don Miller

**D**uring our August 5 Midland Section board meeting we spent an hour or so discussing ways to increase membership participation in the Section by being more responsive to member needs. We talked about having speakers, seminars, informal gatherings, etc., while all the time ignoring the segment of our membership in the greatest need of our help. I am, of course, referring to our people who have lost their jobs due to company downsizing. Older workers seem to be especially vulnerable, a trend consistent throughout the industry.

This need was forcefully brought to our attention by the articles written by Deb Bergstrom in the August and September issues of *The Midland Chemist*. As chair of the Careers and Professional Relations Committee, I feel especially responsible for the past lack of action. I think Deb's articles constitute a wake-up call. In light of this, here are some ideas for action on the part of the ACS:

- Set up an account on the local or national level for unemployed members to use in their job search or other unexpected expenses. The fund should be partially (if not completely) funded by the National ACS, perhaps tied in with an unemployment insurance plan, with the premiums included in membership dues. I would ask our councilors to bring this subject up for discussion at the next national board meeting.
- Set up a meaningful network between sections in the various regions that would enable everyone to be aware of all available jobs. This could be done by section chairs and section career coordinators communicating by e-mail. Periodically each section could post any job openings in their area by e-mail, the purpose being for unemployed members to be employed in their fields without having to relocate.
- Closer interaction between our section and the local technical staffing agencies, such as Kelly Scientific Services, RCM Technologies, Trillium, etc. I have recently spoken with Steve Fisher of Kelly Scientific Services. Their organization would be glad to work with us.
- Consider temporarily hiring unemployed members at local universities or research agencies.
- Call friends and acquaintances who have recently lost their jobs. Although this would not provide employment, it would do wonders in raising spirits.

Please contact me, Don Miller, donmiller@tm.net, 989-832-8270, if you're interested in getting involved in this type of program.

*Announcing...*

# Sci-Fest 2002

## Chemistry Keeps Us Clean, from A to Z

**Saturday, October 19, 2002**

**10:30 a.m.–2:30 p.m.**

**Delta College Pioneer Gym**

Sponsored by the Midland Section ACS and the  
Mid-Michigan Technician Group

**E**veryone looks forward to Sci-Fest. The theme of this year's Sci-Fest is "Chemistry Keeps Us Clean, from A to Z." There will be special science demonstrations for kids of all ages and information on local science programs. Some of the exhibitions planned include:

- Air filtration
- Recycling
- Dust mites
- Cleaning ice
- Chimney cleaning
- Soaps
- Preventing disease
- Oil spill clean-up
- Water treatment
- Zoo animals

Our special guest will be

Steve Spangler, who is nationally recognized as a "teacher's teacher," He shares his secrets for communicating high-content information using a special brand of entertaining visual magic. Steve blends unique experiences as a teacher, business owner, educational toy designer, and Emmy award-winning television personality into a fast-paced program guaranteed to captivate and inspire the imagination.

Steve presents 90–100 programs each year to a wide variety of audiences including educators, school administrators, sales professionals, and students. He teaches people of all ages the importance of building connections between educational concepts, hands-on experiences, and real-world applications.

We invite you and your family to come for a fun and interesting day! For more information or to volunteer, contact Dave Stickles, 989-496-3273, [dstick44@chartermi.net](mailto:dstick44@chartermi.net).

And yes! volunteers are needed for:

Set-up	9:00 a.m. to 10:30 a.m.	4-6 people
ACS/MMTG Booth	10:30 a.m. to 12:30 p.m.	4 people
ACS/MMTG Food Table	10:30 a.m. to 12:30 p.m.	4 people
ACS/MMTG Booth	12:30 p.m. to 2:30 p.m.	4 people
ACS/MMTG Food Table	12:30 p.m. to 2:30 p.m.	4 people
Clean-up	2:30 p.m. to 4:00 p.m.	4 people



## 2003 Midland Section Candidates

**T**ake part in the Midland Section—vote for the candidates of your choice! Candidates are listed below by position and then alphabetically. Voting instructions and a ballot are on page 25.

### Candidates for Chair-Elect

#### *Joe Ceraso's Statement*

I can see three major goals which I would like to emphasize with the leadership of the Midland Section:

- Enhance and establish new programs to encourage more participation by active members and to increase the number of active members
- Continue our strong emphasis on career roles and opportunities in chemistry with students of all ages
- More actively promote the benefits of chemistry in society with our local residents



#### *Joe Ceraso's Profile*

**Current Position:** Scientist and global technical leader in the Engineering Plastics Research and Development Laboratory, The Dow Chemical Co. (copolymer research, blends, new products, new fabrication processes).

**Education:** B.S., College of Natural Sciences, Boston College, 1969, Chemistry. Ph.D., Michigan State University, 1975, Physical Chemistry.

**Experience:** The Dow Chemical Company, 1976–present. Senior Research Chemist R&D, 1976–1978; Project Leader R&D, 1978–1980, Analytical Science Instrument Development Group; Group Leader R&D, 1980–1983, Analytical Sciences; Senior Group Leader/Research Manager, 1983–1989, Plastic's R&D; Project Manager, Manufacturing Technology Center, 1989–1992. Temporary & adjunct teaching appointments at CMU & SVSU. Member of American Chemical Society (ACS) and Society of Plastics Engineers (SPE).

#### *Fred Vance's Statement*

The one thing I want to do for our ACS section more than anything else is to get more people involved in our activities. I have been very impressed by the amazing (and award-winning)



activities that go on in our Section, ranging from technical talks and career development forums to community education and social mixers. The list becomes even more impressive when you consider what a small handful of people actually execute and participate in these activities. These folks are obviously going the extra mile to produce top-notch activities.

Our quality is excellent, so I just want to improve on the quantity. I'm not necessarily talking about any more programs, but I would like to see programs that reach a larger part of our Section. Of our 800+ Section members, I would guess that less than a fourth of them have attended an ACS event this year, and the number attending more than one event is probably around 10% of our total. If elected, my greatest focus will be determining how our Section can better serve its largely inactive members, then setting plans in place to reach them.

### ***Fred Vance's Profile***

B.S. Chemistry (magna cum laude), Hope College, 1993; M.S. Chemistry, Northwestern University, 1995; Ph.D. Inorganic Chemistry, Northwestern University, 1999. 1999–present: Research Specialist at The Dow Chemical Co., Corporate R&D on heterogeneous catalysis. Winter 2001, taught introductory chemistry at Saginaw Valley State University. Member of ACS and SAE International.

ACS Activities: Joined ACS in 1994. Joined Midland Section 1999. Served as chair for the Midland Fall Scientific Meeting for 2000 and 2001. Also served as a symposium chair for the 33<sup>rd</sup> Central/Great Lakes Joint Regional ACS Meeting, 2001.

### **Candidates for Secretary**

#### ***David Baker***

Faculty member at Delta College since 1996 and currently an associate professor in chemistry. B.Sc. (Hons), Leicester University 1987; M.S., University of Toledo, 1990; Ph.D., Leicester University 1994.

ACS Activities: Joined in 1988; co-chair, Midland Section Chemistry Olympiad 1997–1999; chair, Fall Scientific Meeting Poster, 1998; presenter, Sci-Fest, 1996–2000; moderator, ACS 29th Central Regional Meeting; co-chair, Erie Section Chemistry Olympiad 1996; article reviewer *Journal of Chemical Education*, 1996–present. Member of the Royal Society of Chemistry, 1993 (C.Chem M.R.S.C.).

#### ***Sharyl Majorski-Briggs***

B.S. in Chemistry at Central Michigan University, 1986; M.A. in Chemistry at WSU, 1991; currently working as Laboratory Coordinator at CMU

ACS Activities: committee member, Science Olympiad X (2002–present); advisor, Student affiliates at CMU (2002–2003 school year).

### **Candidates for Treasurer**

#### ***Douglas E. Beyer***

B.S., Chemistry, Michigan State University, 1974; M.S., Organic Chemistry, University of Wisconsin, 1975. Various research appointments, Dow Corning Corp., The Dow Chemical Co., Swedish Forest Products Research Institute, 1969–1974. Held various research positions within The Dow Chemical Co., 1975–present.

Current position: Research Associate, Saran Barrier Systems R&D. Volunteer, business, and finance advisor, Junior Achievement–Midland, company program, 16 years.

ACS activities: Joined 2000, currently Midland Section treasurer (2002–01), served on various Scientific Meeting committees.

#### ***Bradley Fahlman***

B.Sc. (High Hons., Co-op designation) in Chemistry from the University of Regina (Canada), 1996; Ph.D. in Inorganic Chemistry from Rice University, 2000; Post-doctoral: Lecturer in Chemistry at the University of California, Irvine, 2000–02; Assistant Professor of Chemistry at Central Michigan University, July 2002–present. Research interests include synthesis and characterization of thin films and nanostructural materials.

ACS activities: Joined ACS in 1998. Given seven oral presentations at National ACS meetings since 1997 and two oral presentations at local ACS meetings (Southwest ACS); member of graduate committee, Owlchemy, ACS student affiliate at Rice University, 1997–99.

### **Candidates for Chair, Nominations and Elections Committee**

#### ***Gary E. Kozerski***

M.S. Chemistry, John Carroll University, 1996; B.A. Chemistry, Western Michigan University, 1991. Employed by Dow Corning Corp. since 1996; current position as Associate Analytical Specialist in Electronics. Served as chair-elect and chair of Mid-Michigan section of Society for Applied Spectroscopy (SAS), 1998–2001.

ACS activities: co-chair, Chemistry Olympiad, 1997–98. Duties included contacting teachers to coordinate program activities at high schools in five counties, conducting mailings, reporting to the national program chair, and presenting awards to students at local high school recognition ceremonies.

#### ***Timothy B. Lueder***

B.S., Chemistry, Central Michigan University, 1997; presently Americas Team Leader, Sealant Development S&T, Dow Corning Corp.

ACS activities: Joined 1999; Student Affiliate 1995–97; presenter, 1996 and 1997.

## **Candidates for Councilor**

### ***Bob A. Howell***

B.A., Chemistry, Berea College, 1964. Ph.D., Physical-Organic Chemistry, Ohio University, 1971. Postdoctoral Associate, Iowa State University, 1971–74. Industrial Internship, Polymer Science, Dow Chemical Company/Polymer Division-ACS, 1985. Industrial/Academic Faculty Exchange, Polymer Science, 1990. Currently, Professor, Organic/Polymer Chemistry, Center for Applications in Polymer Science/Department of Chemistry, Central Michigan University.

ACS activities: Member of ACS since 1964. Numerous ACS activities and positions 1964–1990. Since 1990: Program Committee, 22nd Central Regional Meeting, 1990; chair, Chemical Education Division, 22nd Central Regional Meeting, 1990. Organized and chaired symposia entitled, “FT-NMR in the Undergraduate Curriculum” and “Innovative Academic-Industrial Interactions for the Enhancement of Higher Education in the Chemical Sciences,” presented at the 22nd Central Regional Meeting, 1990. Midland Section-ACS: Board of Directors, 1983–95, 1996–present; Nomination and Elections Committee, 1983, 1989–91, 1997–present; Long-Range Planning Committee, 1996; Author’s Night Committee, 1988, 1991; ACS Project SEED preceptor, 1979, 1980, 1981, 1982, 1985, 1992–98; chair, Organometallic Section, Fall Scientific Meeting, 1992; organized and chaired symposia entitled “Packaging Materials for Emerging Technologies” at the 50th Fall Scientific Meeting, November, 1995; panelist, symposium on Science in Government, 1996; participant, ACS-Michigan Capital Day, 1999; moderator, alternate councilor, 1985–92; councilor, 1993–95, 1997–present. National-ACS: Joint Board-Council Committee on Patents and Related Matters, 1986–present; chair, 1995–97; Awards Subcommittee, 1986–88, 1995–present; Education Subcommittee, 1986–94, chair, 1988–94; International Issues Subcommittee, 1988–94; Long-Range Planning Subcommittee, 1988–present; Legislative Subcommittee, 1995–present. Polymer Division Nomenclature Committee, 1999–present. Polymer Division PolyEd Committee, 1999–present. Organic Examinations Committee, 1995–present; councilor, Midland Section 1999–present.

### ***Bill Pike***

B.S. Chemistry, University of Illinois, 1968; Ph.D., Organic Chemistry,

Ohio State University, 1976; The Dow Chemical Co, 1976–2000, retired November 2000.

ACS activities: Joined 1970; Midland Section: Program Committee for Fall Scientific Meeting, 1981; Chair, Awards Committee, 1985; secretary, 1987; treasurer, 1988, chair-elect, 1989; chair, 1990; past-chair; chair, Long-Range Planning Committee, 1991; director, 1992–94.

## **Candidates for Alternate Councilor**

### ***Angelo Cassar***

B.A., Physics and Mathematics, Wayne State University; B.S., Chemistry, Saginaw Valley State University, M.A., Chemistry, Central Michigan; presently retired Process Analytical Specialist, Dow Corning Corporation. Phi Lambda Upsilon Honorary Chemical Society; Also member of North American Chapter of the International Chemometrics Society (NAmICS).

ACS Activities: Member since 1990; Publicity cochair, 2001, Publicity chair, 2002; cochair of National Chemistry Week for the American Chemical Society, 2001–02; National Historic Chemical Landmark Committee Member for the H.H. Dow Museum Site, 1997; Vision for Education, 1999; Sci-Fest, 1997, 1999, 2001–02; Awards Committee, 1998.

### ***Maneesh Bahadur***

M.S. Chemistry University of Connecticut, 1987, Ph.D.; University of Vermont 1991. Joined Dow Corning Corp. 1996. Member of ACS Poly Division membership committee.

## **Candidates for Board of Directors**

### ***Petar R. Dvornic***

B.S., Chemical Technology and Metallurgy, 1972, University of Belgrade; M.S., Macromolecular Chemistry, 1975, University of Belgrade; M.S., Polymer Science and Engineering, 1978, University of Massachusetts, Amherst; Ph.D., 1979, University of Massachusetts, Amherst.

Postdoctoral fellow in 1979–80 and a Visiting Scientist in 1985 at the Polymer Science and Engineering Department of the University of Massachusetts, Amherst, 1979–80. In 1980 joined the Institute of Chemistry and Technology of the University of Belgrade and went through the ranks from Research Scientist (1980–83) to Senior Research Scientist (1983–88) to the Head of the Polymeric Materials Department (1988–93). From 1985–93: Associate Professor of Polymer Chemistry at the Department of Chemistry of the University of Belgrade. Joined Michigan Molecular Institute, MMI, in 1993 and rose from Associate Scientist (1993–94) to Senior Associate Scientist (1994–95) to Research Scientist (1995–99) to Senior Research Scientist (1999–present). Appointed Professor of Polymer

Chemistry at MMI in 1999, Adjunct Professor to Central Michigan University, Mount Pleasant, MI, (1993–present) and Adjunct Professor Michigan Technological University, Houghton, MI, (1993–present). Member of ACS since 1977.

***George Eastland***

B.S. Wittenberg University, Ph.D., South Dakota State University; (Inorganic Chemistry). Presently Professor of Chemistry, Department of Chemistry Saginaw Valley State University.

ACS activities: Joined 1966; chair, Midland Section, 1987 and 2001; numerous section activities, including Nominations Committee (four times), Fall Scientific Meeting (three times, including chair), Awards and Recognition Committee, Transporation Committee and Publicity Committee for Central Regional Meetings, National Chemistry Week, and Chemistry Olympiad for a number of years, Authors' Night (every year).

***Randal M. Hill***

Currently working in the Device Physics Group at Dow Corning Corp.; also Adjunct Professor, Chemical Engineering Department, Wayne State University and Visiting Scholar at Stanford University; past Adjunct Professor, Chemical Engineering Materials Science Department, University of Minnesota; previously worked at Unilever and A.E. Staley; Ph.D., Physical Chemistry, University of Oklahoma, 1982; B.S., Physics, Southern Nazarene University, 1976.

ACS activities: Co-editor of *The Midland Chemist* 1992–99; 25 year member of the ACS (since 1977)

***Dale LeCaptain***

B.S.in Chemistry, University of Wisconsin—LaCrosse (1994); Ph.D. in Analytical Chemistry, Michigan State University (1999); Post-doctoral work at Colorado State University

Current position: Assistant Professor, Department of Chemistry, Central Michigan University; Primary instructor for the quantitative analysis course and the graduate core course in analytical chemistry. Research areas are crystallization and “green” chemical process development with emphasis in Raman and nonlinear spectroscopies.

Joined ACS in 1993 and served as Student Affiliate treasurer in 1994. Presented my research at several National ACS meetings. Most recently, co-chairing the committee for the 2002 Midland Section FSM.

***Donald L. Miller***

B.S., Wayne State University, 1950; M.S., Central Michigan University,

1974; QC Chemist at Irwin Neisler Co., 1950–54; Polymer analysis, production, and environmental studies at The Dow Chemical Co., 1954–85; Vent sampling and analysis for both The Dow Chemical Co. (1986–88) and Dow Corning Corp. (1989–93); Volunteer Work for Habitat for Humanity, Midland Recycling Center, Fun Zone, restoration of Midland Courthouse murals; Morningside Condominium Association Board of Directors (1995–99) as both secretary and president; volunteer work for Midland Center for the Arts, Hall of Ideas (2000–present).

ACS activities: Joined ACS in 1952; program committee, Midland Section ACS Meetings, 1959–60; ACS booth at Midland County Fair (1991–98); organized retirees to work daytime shift at ACS booth at Midland County Fair (1992–98); Midland Section Board (1995–99), director; instrumental in establishing Midland Section Career Services Program (1997); Career Services and Professional Committee (1997–present), chair (2001–present); 2000 Fall Scientific Meeting Committee (keynote speaker and panel discussion committees); ACS Kids & Chemistry Program (2000–02)

### ***Connie J. Murphy***

Education: Milwaukee Area Technical College, A.A.S., 1980.

Honors: Midland Section, Outstanding Chemical Technicians Award, ACS, 1997; Dow Central Research Scientists Organization, Outstanding Technologist Achievement Award, 1994; Phi Theta Kappa.

Professional positions (for past 10 years): The Dow Chemical Co., Research and Development Technologist Leader, 2000 –present; Senior Research and Development Technologist, 1994–00; Research Technologist, 1991–94.

Service in ACS National Offices: Committee on Membership Affairs, 1999–02, Committee Associate, 1998; Committee on Technician Affairs, 1997–99, Consultant, 1999–02.

Service in ACS Offices: Member ACS since 1992. Division of Chemical Technicians, councilor, 1998–03; chair, 1996; chair-elect, 1995; Strategic Planning Committee, 2000–01; webmaster, 1996 –present; member-at-large, 1994; Nominations and Elections Committee, 1993; regional coordinator, 1992–95.

Midland Section: board member, 2000–02; Membership Growth and Retention chair, 1999 –present. Mid-Michigan Technician Group: elected delegate, 1992–93, 1997–99; chair, 1995; chair-elect, 1994; Steering Committee, 1991.

Member: ACS Divisions: Chemical Technicians; Polymer Chemistry and Polymeric Materials: Science and Engineering.

Related Activities: ACS Chemical Technology Program Approval Ser-



vice, 1997–02; ACS San Diego National Meeting Symposium chair, 2001, National Visiting Committee chair for National Science Foundation supported project in Industry-Based Chemical Technology Curriculum Development, 2000–01; Chemical Technology Program Advisory Board, Delta College, 1995 –present; Chemical Technology Program Advisory Board, Grand Rapids Community College, 2000 –present.

### ***Leela Rakesh***

M.S. Honors in Chemistry and Mathematics, 1978–79, IIT Kanpur/Delhi, India, Ph.D., Applied Mathematics at IIT and Kanpur U. 1982–83; post-doctoral Research Associate Fellow: Washington University (Engineering/Medical school) 1983–84, St. Louis, Missouri; instructor: University of California, Davis, 1984–86; Currently working at Central Michigan University, Professor of Applied Mathematics and Polymer Fluid Dynamics.

Association for Women in Science, treasurer, 1996–1999, Midland Section.

ACS activities: Joined ACS in 1992; chair, Awards Committee, 1998–2000.

### ***Art Smith***

Education: B.S., Chemistry, Sioux Falls College Sioux Falls, SD 1953; M.A., Chemistry, University of SD 1956; B.D., Colgate-Rochester Divinity School, Rochester, NY 1963.

Employment: Dow Corning Research Department 1956–60, 1965–70; Delta College Chemistry Department 1970–96; Adjunct Professor, Delta, SVSU, CMU, 1996–present.

ACS activities: Member since 1954 (Emeritus Member); Education Committee (short courses), Midland Section (1970s); advisor, Student Affiliate, Delta College (1970–96); National Chemistry Week (1994); chair-elect, Midland Section (1997); chair, Midland Section (1998); Long-Range Planning, Midland Section (1999); director, Midland Section (1999–present).

### ***Janet Smith***

Background: A.S., Highest Honors, Delta College. Employed as technician/technologist for Dow Corning Corp. since 1987 in areas of tech service, materials development, commercialization, and research.

Co-authored two juried publications (*Journal of Materials Chemistry*) and one trade magazine (*DCI*) article. A juried book chapter on drug delivery is scheduled for publication in late 2002. Received one Dow Corning Commercialization Award, three Dow Corning Technical Achievement Awards, and 17 U.S. patents.



ACS and other volunteer work: Midland Section ACS: Awards Committee (3 years); Science Literacy Committee (6 years); numerous Sci-Fest and Midland County Fair ACS activities. Mid-Michigan Technician Group (affiliate of Midland Section): Member since 1993. Served as treasurer, delegate, chair-elect, chair, and director.

National ACS: treasurer of the Division of Chemical Technicians (2001–04), member since 1993.

### ***Patrick B. Smith***

Current Position: Scientist, The Dow Chemical Co., Analytical Sciences

Background: Ph.D., Physical Chemistry, 1978, Michigan State University; M.S., Physical Chemistry, 1974, Michigan State University; B.S., Chemistry, 1972, Michigan State University.

ACS activities: Fall Scientific Meeting, Midland, Chair, Keynote Speaker Committee, 1982; chair, Committee on Continuing Education (1991); Toronto National ACS Meeting - symposium organizer, "NMR Characterization of Macromolecules," 1998; Twenty-second Central Regional ACS Meeting—Physical Chemistry symposium Chair, SVSU, 1990; National ACS Meeting, San Francisco, CA, NMR symposium organizer, 1997; program chair, ACS Fall Scientific Meeting (1998).

National Memberships/Awards: Sigma Xi Outstanding Research Publication, 1987; Given courses on NMR spectroscopy at Central Michigan University (1990, 1992), Central Regional ACS Meeting (1990) and at Howard University (1985–88, 1990, and 1991); Adjunct Professor at Central Michigan University; ACS Award for "Outstanding Achievement and Promotion of the Chemical Sciences," 1998; 68 publications, 1 patent.

### ***Sarah S. Snow***

Education: Ph.D., Inorganic Chemistry, University of Utah, Salt Lake City, UT 1985; B.S., Chemistry, University of North Dakota, Grand Forks, ND 1980.

Work Experience: External Project Evaluator, Saginaw Valley State University, 2002–present; Dow Corning Corp., 1985–2002. Most recently worked in the area of Technical Program Development for Science and Technology Learning and Development.

ACS Activities: Member since 1978. Cochair Midland Section Career Services Committee, 1999–2000; chair, Awards Committee, 1997; chair, Keynote Speaker Committee, Fall ACS Scientific Meeting, 1996; Cochair, Publicity Committee, 1991. Participated in various other ACS committees and sponsored events throughout my membership.

## National Chemistry Week Goes to W. Branch

**A** National Chemistry Week event at West Branch promises to offer plenty for students and families as well as the West Branch community and surrounding areas. The event is an expanded version of “Chemistry Keeps Us Clean, from A to Z.” Some of the special features include:

- Ogemaw Heights High School Student Science Demonstrations
- Collection for West Branch Food Bank
- A to Z Merchant Scavenger Hunt (with over 30 merchants)

The event is sponsored by:

- Ogemaw Heights High School
- National City Bank
- Midland Section ACS
- ACS National Chemistry Week

Details are listed below. Please contact John Blizzard (989-892-8689) if you need more information.

### **Chemistry Keeps Us Clean, From A to Z**

October 21–26

9:00 a.m.–5:00 p.m.

National City Bank

113 W. Houghton Avenue

West Branch, MI 48661

989-345-0393

## We're responsible . . .

In 1988, the American Chemistry Council (ACC) launched Responsible Care® to respond to public concerns about the manufacture and use of Chemicals.

Through this initiative, Dow Corning Corporation and other ACC members and partners are committed to continually improving our responsible management of chemicals.

We're responsible because we care.

**DOW CORNING**



**Responsible Care®**  
*Good Chemistry at Work*

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## Ballot for Election of 2003 Midland Section ACS Officers

1. Vote for the candidate of your choice, selecting one for each office except as noted.
2. IMPORTANT: To maintain anonymity, **do not sign** the **ballot** or the **inner ballot envelope**.
3. Place the ballot in the ballot envelope. Place the ballot envelope in the return envelope and sign and print your name on the return (outer-most) envelope. You **must sign** your name on the **outer envelope** to have your ballot counted. See #4 below.
4. In order to vote, one must be a member or associate member in good standing with the ACS. Affiliates are ineligible to vote according to National ACS bylaws.
5. Ballots must be received at the address below **on or before October 25, 2002.**

Kermit Kwan, Chair  
Midland Section ACS Nominations & Elections  
Dow Corning Multibase  
10330 Hercules Drive  
Freeland, MI 48623

### BALLOT

#### CHAIR-ELECT (vote for one)

☐ Joe Ceraso

☐ Fred Vance

#### SECRETARY (vote for one)

☐ David Baker

☐ Sharyl Majorski-Briggs

#### TREASURER (vote for one)

☐ Douglas E. Beyer

☐ Bradley Fahlman

#### CHAIR, NOMINATIONS & ELECTIONS COMMITTEE (vote for one)

☐ Gary E. Kozerski

☐ Timothy B. Lueder

#### COUNCILOR (vote for one)

☐ Bob A. Howell

☐ Bill Pike

#### ALTERNATE COUNCILOR (vote for one)

☐ Angelo Cassar

☐ Maneesh Bahadur

#### BOARD OF DIRECTORS (vote for four)

☐ Petar R. Dvornic

☐ Leela Rakesh

☐ George Eastland

☐ Art Smith

☐ Randal M. Hill

☐ Janet Smith

☐ Dale LeCaptain

☐ Patrick B. Smith

☐ Donald L. Miller

☐ Sarah S. Snow

☐ Connie J. Murphy

## Important Dates on the ACS Midland Section Calendar

October 7	Midland Section board meeting, Delta College Midland Center, Room 12, 7:00 p.m.
October 11	Fall Scientific Meeting, EDC, The Dow Chemical Company, 12:00 p.m.
October 19	Chemistry Keeps Us Clean, From A to Z, Delta College Pioneer Gym, 10:30 a.m.–2:30 a.m. (Dave Stickles, 989-496-3273)
October 21–26	Chemistry Keeps Us Clean, from A to Z, West Branch, 9:00 a.m.–5:00 a.m. (John Blizzard, 989-892-8689)
November 4	Midland Section board meeting, Delta College, Midland Center, Room 12, 7:00 p.m.
November 11	Deadline for December issue of <i>The Midland Chemist</i>
December 2	Midland Section board meeting, Delta College, Midland Center, Room 12

All meetings are open to all ACS members and the public.

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**AMERICAN CHEMICAL SOCIETY**

P.O. Box 2695

Midland, MI 48641-2695

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