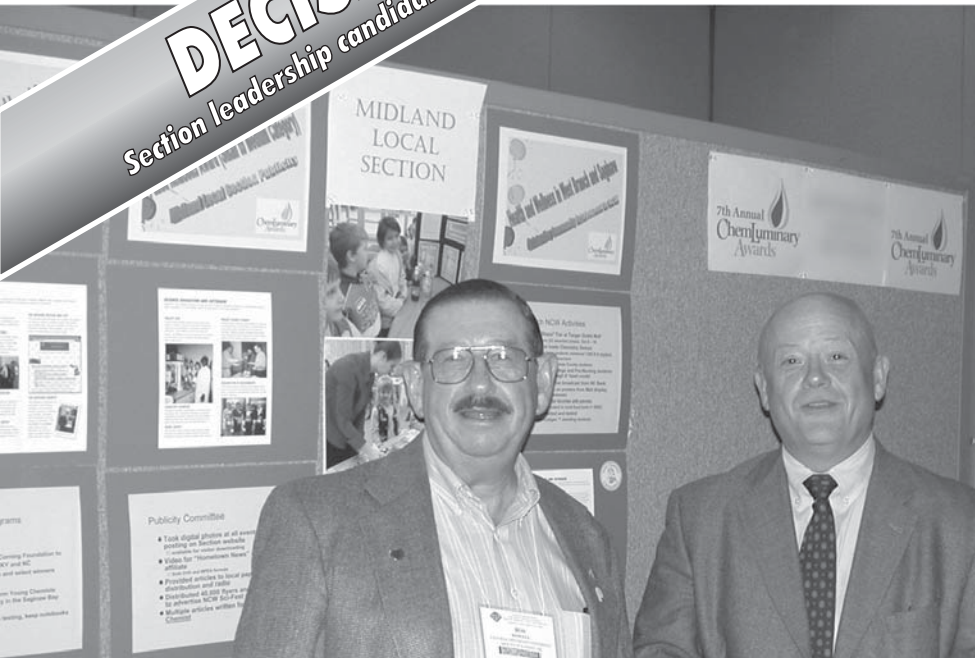


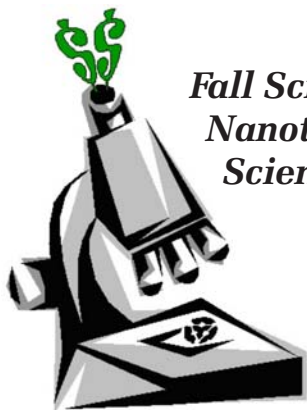


## DECISION 2005

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# THE MIDLAND CHEMIST

Volume 42, Number 5  
October 2005

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*The Midland Chemist* is published eight times a year by the Midland Section of the American Chemical Society.

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*Chair Column*

## Making Connections

I recently attended a Dow global technical meeting where the host stressed the importance of “connections” and how valuable it is to bring people together for the sake of connections. I agree! Recent examples of opportunities provided by our Section for connections include presentations by Gregg Zank, chief technology officer of Dow Corning, and Bill Carroll, president of ACS.

Programs such as these give you an opportunity to meet key leaders in the chemical profession and hear their prognosis and priorities for the industry. The audience at these events was largely composed of a diverse group of industrial and academic chemists and chemical engineers who are leaders in their respective organizations.

As we anticipate the current schedule of events for the Midland Section, opportunities for connections will be provided through programs such as the Fall Scientific Meeting (FSM), Sci-Fest, and other special events. This year’s FSM is focused on nanotechnology. The FSM draws speakers with diverse perspectives from all over the region who are leading researchers in their fields of study. Look in this issue of *The Midland Chemist* for a summary of this year’s program (pg. 2). Attendees to the FSM come from diverse backgrounds as well, many of whom present posters of their research in order to promote collaboration.

The Fall Scientific Meeting is one of the primary reasons I have been so active in the Section for so many years. I have also enjoyed many years of collaboration with professors in the Section through the connections made at such venues.

There are also connections with the five-county Midland Section community through numerous science outreach activities and collaborations with other professional organizations. In fact, our Section is exploring ways to expand many of these activities in collaboration with Dow’s Public Affairs department to launch teacher education programs throughout the communities in which Dow has a presence. We have similar programs in place already with Dow Corning.

There are many ways to make connections through the Midland Section ACS. We invite you to take advantage of them.



Pat Smith, Chair  
ACS Midland Section

A handwritten signature in cursive script that reads "Pat Smith".

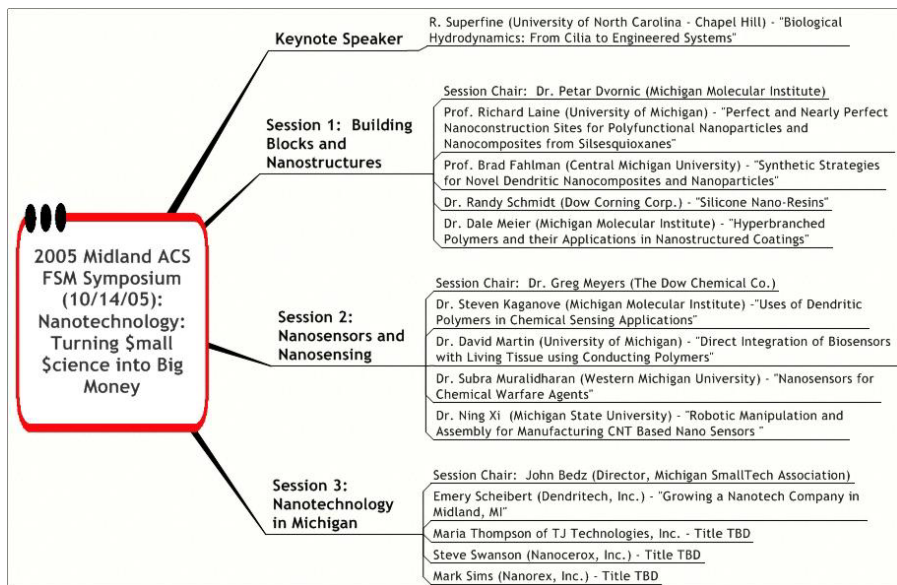
# 61<sup>st</sup> Annual FSM Slated for October 14

By Gregg Potter

The theme for this year's Fall Scientific Meeting is "Nanotechnology: Turning Small Science into Big Money." The meeting will focus on new materials, applications, and characterization. The meeting will be held on October 14 at Dow's Employee Development Center on Abbott St. in Midland. Due to the security requirements of using a Dow Chemical facility, photo identification will be required for admission. Please preregister at <http://membership.acs.org/m/midl/fsm05/registration.htm>.

Events include a workshop in the morning, awards presentations in early afternoon, followed by our keynote speaker, Richard Superfine, Associate Professor, Department of Physics and Astronomy, and Director, Center for Computer Integrated Systems for Microscopy and Manipulation, University of North Carolina, Chapel Hill. Professor Superfine's talk is entitled, "Biological Hydrodynamics: From Cilia to Engineered Systems." The poster session, vendor exposition, and symposia will follow the keynote address. The meeting will wrap up with a celebratory social.

Below is a diagram of the meeting structure. The current time schedule is given on the following page. For up-to-date schedule, maps, and details on presentations and posters, check out the web page and links at <http://membership.acs.org/m/midl/fsm05/about.htm>. We will also send a program for the meeting to all Midland Section and MMTG members.



## Fall Scientific Meeting Schedule

Time	Event	Location
10–Noon	Registration	Lobby/Entrance
10:30–11:30	Workshop - Overview of Michigan Nanofabrication Facility at the University of Michigan	Auditorium
11:30–Noon	Break (refreshments)	
Noon–12:30	Welcome/Awards (including first annual Midland Section College Scholarship Award)	Auditorium
12:30–1:15	Keynote Presentation: Biological Hydrodynamics: From Cilia to Engineered Systems, Prof. R. Superfine	Auditorium
1:15–1:30	Break	
1:30–3:00	Poster Session/Vendor Exposition	EDC Classrooms B, C, E, G, sides, hall
3:00–5:00	Building Blocks and Nanostructures: Dr. Petar Dvornic, Chair  Nanosensors and Nanosensing: Dr. Greg Meyers, Chair  Nanotechnology in Michigan: John Bedz, Chair	EDC Auditorium, Classrooms A, D
6:00–8:00	Meeting Social	To be determined



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## Midland Section Awards First Scholarship

By Lin Dorman

The Midland Section of the American Chemical Society has selected Andrea Alexander as the recipient of the 2005 American Chemical Society Scholarship. This \$1,000 scholarship is the first awarded in an annual program set up by the Midland ACS, through the Midland Area Community Foundation. The scholarship is based on academic achievement and potential for contributions to the chemical services.

Andrea is a student and laboratory assistant at Delta College, where she holds a 3.96 GPA. She also spends time as a chemist in a Delphi Corporation laboratory. Andrea was nominated for the scholarship by Cynthia Peck, associate professor of chemistry at Delta College. She plans to continue her education at either Michigan State University or Central Michigan University,



“Andrea was selected because of her excellent academic standing and her interest and dedication in continuing her education in the chemical sciences,” said Eldon Graham, a member of the Midland ACS Scholarship Committee. Andrea will be presented with the award on Friday, October 14, at the Midland ACS Fall Scientific Meeting.

The scholarship is in keeping with the mission of the ACS, “to encourage in the broadest and most liberal manner the advancement of the chemical enterprise and its practitioners.” The scholarship fund is an endowed fund, and its two-year inaugural Fund Drive continues through September. Persons interested in supporting this program can do so through the Midland Area Community Foundation or by contacting Lin Dorman at 989-631-0213.

### *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.

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# ACS President Challenges Midland Section

By Angelo Cassar and Gretchen Kohl

**D**r. William F. Carroll, 2005 ACS president, met with members of the Midland Section on March 3, 2005, at the Ashman Court Hotel, for dinner and to discuss relevant issues related to chemists and the chemical industry. The overall theme of Bill's talk was opportunity. According to Bill, "There is no opportunity without change and vice versa." His specific topics included Public Perception of Chemistry, Secondary Chemistry Education, and The State of the Chemistry Enterprise in the U.S. Although the meeting was held several months ago, we thought his message would be of interest to members who could not attend. Below are synopses of his topics.



## ***Public Perception of Chemistry***

The public perception of chemistry is better than we think: "No for chemicals, but yes for chemistry." Chemists should relate to the public the benefits chemicals provide to society. For example, because of innovations in the field of plastics, society benefits from plastic bags that can store blood twice as long as was possible in glass. Also, the plastic tubing used to transport the blood from a person's arm to the plastic bag will not kink. Bill showed a brief video of a commercial that has been often seen on television concerning the health benefits of plastics. It was obvious that other fields of chemistry (using *chemicals*) can benefit from the honest marketing that the plastics industry promotes with its TV ads.

A non-chemistry example of promoting a healthy public image was actual footage shown on a local news station promoting the construction of a Habitat for Humanity house. A chemist on the tape was pointing out all the benefits of the insulation and other building materials designed from chemicals. Bill challenged us to be ambassadors of our profession and to use this to promote the many products of chemistry that benefit the public.

## ***Secondary Chemistry Education***

Only 60% of secondary education students take chemistry and less than half of their teachers have even a minor in chemistry. What can be done to improve the teaching of chemistry? One solution is to hire retired chem-

ists. In many states, a retired chemist can be qualified to teach high school chemistry in about a year. Another problem relates to high school teaching in general: the half-life for high school teachers is four years! Teaching high school can be a very stressful job. The American Chemical Society recently adopted a new membership category for high school teachers and may assist teachers by offering them reduced membership dues—for example, charging high school teachers only \$40 to access the ACS website. This would be approximately \$80 less than full membership to the ACS. We need to advertise this new resource to our area teachers.

### ***Chemistry Enterprise 2015***

This part of Bill's talk is difficult to condense because of the many interrelating concepts he presented concerning the future of the chemical industry from a business point of view. Concepts such as commodities, specialties, globalization, and out-sourcing were clearly defined to ensure effective communication. One of the issues facing the chemical industry is the lack of adequate energy sources. Another issue is the negative trade balance for the U.S. chemical industry, which up until 2002 was a positive trade balance. Then there is the issue of fewer foreign students coming into the U.S. since 2002. Dr. Carroll felt that the jury is still out as to the future of the number of jobs in chemistry in the U.S. However, some migration of U.S. jobs to other countries and "commoditization" of chemicals are inevitable in the future. It is absolutely necessary to compete as an American chemist in a global market in order to survive in this world economy. The "spirit of chemistry past"—organic, analytical, and physical chemistry—must give way the "spirit of chemistry present," which is globalization and commoditization.

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## **YCC Outing Hits Another Home Run**

*By Wendy Flory and Buford Lemon*

**T**ake me out to the ballgame was definitely the feeling for the recent Younger Chemists Committee outing to a Lansing Lugnuts baseball game. The 39 attendees included YCC members, Dow employees, CMU faculty, Midland Section ACS members, and friends and family, all gathered to cheer for our Michigan team. It was also Margaritaville night with plenty of music and tropical leis to go around. Attendees enjoyed a free concert before the game in Jimmy Buffet style. The event took place on August 25, a "thirsty" Thursday with a choice of \$2 beers, sodas, or wing baskets. The relaxed atmosphere brought YCC members together from across the Section as we watched the Lugnuts chalk up another 'W' for the season.



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## Fifty-Year Members To Be Honored at Fall Scientific Meeting

By Peggy Hill

**A**t the Fall Scientific Meeting on October 14, the Midland Section will honor seven members who this year reached their 50-year ACS membership status. Congratulations and thanks to these long-time friends!

**Mou Shu Chao** came to The Dow Chemical Company in 1960 after he completed his doctoral degree at the University of Illinois at Urbana that same year. Dr. Chao originally hails from Taiwan, where he received his undergraduate chemistry training. He enjoyed a 26-year career at Dow working in electrochemistry research, retiring in 1986. Mou Shu and his wife Patricia reside in Midland. They have one daughter.

**Leroy Hampton**, now retired, has a 34-year history with The Dow Chemical Company. He began his professional life as a pharmacist and shortly thereafter joined Dow in 1953 as a chemist at the Rocky Flats location in Colorado, where he worked on uranium in the process development and support facility there. In 1967, he transferred to Midland to do technical recruiting for Dow. A few years later Leroy became manager of minority employee relations and then issues manager for health environmental sciences research, retiring from Dow in 1986.

Since retiring from Dow, Leroy served as director of affirmative action for Saginaw Valley State University and also resumed on a part-time basis his original calling as a pharmacist—he has only just this year retired from this latter activity. United Way, Kiwanis Club, and Dow's Community Action Panel have kept him busy as well. Leroy and his wife, Anne, live in Midland and enjoy visiting with their five children and five grandchildren.

**Eric Larsen** earned a B.S. in chemistry from the University of Washington in 1950, and a Ph.D. in organic chemistry in 1954 from the University of Colorado. He also served in the U.S. Army during the Korean Conflict. He joined The Dow Chemical Company in the Chemical Engineering Laboratory as a fluorine chemist, and later became associate scientist and research scientist in the Halogens Research Laboratory. He was well known as an authority on such important topics as flame inhibitors, inhalation anesthetics, chain transfer agents, and inorganic bromides. He was a member of the Editorial Advisory Board of the *Journal of Fire Sciences* since its inception in 1983.



Eric retired from Dow in 1986 and continued to generate creative new ideas and reduce to practice as a private consultant serving many chemical companies. He died on April 6, 2005. He was predeceased by his wife of 35 years, the former Donna Jean Hesselius. He is survived by a son, three daughters, and six grandchildren.

**John R. Moyer** spent 35 years at The Dow Chemical Company involved in inorganic research. His work there included development of the mineral acicular mullite into forms that could be used for a variety of applications such as the filtering of carbon from diesel. John also worked on processes for recycling waste brine. A notable development involved the use of photochemical treatment to decompose acetic acid to methyl chloride and carbon dioxide, facilitating its removal from various brines.

John's formal education began at Eastern Michigan University, where he earned a bachelor's degree in 1952. He went on to the University of Michigan, where he completed doctoral work before joining the research ranks at Dow in 1958.

Now retired from Dow, John spends time as a volunteer for hospice and as an instructor for the National Association of Investors. He resides in Midland with his wife, Elizabeth; both enjoy visiting with their two daughters, Ann and Jean, and two sons, Thomas and Paul, and their six grandchildren.

**Robert M. Nowak** spent a distinguished 37-year career at The Dow Chemical Company. From 1983 to 1993 he served as head of Central Research, and he was Dow's chief scientist from 1990 to 1993. In 1994, Bob became president and CEO of the Michigan Molecular Institute, where he continues full-time efforts. In his various roles at Dow and at MMI, Bob has had input into a wide range of chemical research including the development of polycarbonates, metallocene catalysts, ceramics, dendritic polymers, specialty coatings, and numerous polymers and plastics.

Among his many accomplishments, Bob received the 2003 award for Outstanding Achievement and Promotion of the Chemical Sciences presented at the Midland Section Fall Scientific Meeting that year. Testimonials by colleagues make clear Bob's influence as a



scientist, role model, and mentor in his various capacities.

Bob earned a B.S. in chemistry at the University of Wisconsin in 1952, then went on to the University of Illinois to complete a Ph.D. in organic chemistry in 1955. He and his wife Susan make their home in Midland.

**Carl P. Zupic** obtained a B.S. degree in chemical engineering from the University of Illinois in 1950. He then joined The Dow Chemical Company, where he enjoyed a 42-year career. During that time he served first as research and development engineer in process/product development for plastic films and pipe, then as project leader and group leader in the same field. In 1963 he became area superintendent in Styrofoam manufacture and development and in 1968 became manufacturing development manager for the Pacific area. Later, as project superintendent, Carl was involved in the management, design, construction, and start-up operations of chemical and plastics plants. Most recently, from 1984 until his retirement in 1992, he worked as research associate in Dow Plastics for ABS pipe polymers technical service. After retiring from Dow, Carl continued as a consultant in the plastic piping industry from 1992 until 1996.



Carl and his wife, Beverly, raised their four children in Midland where the couple still resides. They enjoy traveling and photographing art and antiquities encountered during their travels. They also enjoy skiing, sailing, and spending time with family.

**William Rogers Jr.** is a 50-year member of ACS. No information on William was available at press time.



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## **Exercise Your Rights! Vote!**

**C**andidates for Midland Section offices are listed on subsequent pages by position and then alphabetically. These individuals are willing to spend their personal time working for you. **Please respond by taking your time to vote for the candidates of your choice using the ballot on page 18.**

### *Candidates for Chair-Elect*

#### **Dee Strand**

Scientists, engineers, and technologists are dependent upon professional organizations such as ACS for activities such as conferences which keep us technically current and provide networking opportunities. Participation in ACS should be of value to our technical careers and to our personal interest in science outside of our jobs. One primary way that our local ACS chapter can do that is to focus on the advancement of science.

This continued technical emphasis has broad benefits. It provides a means for experienced professionals to stay current on new developments in and out of their field, as well as providing opportunities for those professionals to share their accomplishments and teach others. Beyond that, a technical emphasis can draw in less experienced professionals who have a desire to learn and close connections to their place of education where cutting-edge research is done. For current students or those considering a technical career, ACS promotion of science can be the mechanism which creates or enhances their desire to remain in a scientific or engineering field. Outreach programs which focus on a “science is fun and interesting” theme result in recruitment of a diverse group of people into science. ACS current programs such as Chemistry Olympiad, Project Literacy, National Chemistry Week, and others are perfect tools to do this.

The Midland Section ACS has a unique advantage in that we have so many talented technical professionals who live in the area. We need to draw on the talents of all those individuals and find the best way to involve them in the Midland Section. Recruitment of new members should be a key goal for our local section. By demonstrating value to career and personal interest through involvement in ACS, we bring in new talents and energy to enhance all efforts towards advancement of science.

**Current Position:** Analytical Leader, Analytical Sciences, The Dow Chemical Company

**Professional Experience:** The Dow Chemical Company, 1989–present (Analytical Sciences, assignments in Emulsion Polymers and Material Science); summer internships during graduate school at Chevron Oil Field

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Research Laboratories, La Habre, California.

**Education:** Ph.D. Chemistry, University of Wisconsin–Madison, 1989; M.S. Chemistry, California Institute of Technology, 1984; B.S. Chemistry, North Dakota State University, 1982

**ACS Activities:** Joined 2005; Fall Scientific Meeting

**Other Information:** Member of AIChE, AACC (American Association of Clinical Chemists), technical reviewer for *Analytica Chimica Acta*; co-author of over 100 Dow Technical Reports, 10 external to Dow publications, and 1 patent.

## *Candidates for Secretary*

### **Aneta I. Clark**

**Professional Experience:** Joined Dow Corning in 1996 as a member of Flowable Oxide group and transitioned to Interface Expertise working with surfactant systems. Last couple of years designated to sol-gel synthesis of Au and TiO<sub>2</sub> nanoparticles and synthesis of diblocks via anionic polymerization. Currently as a part of AT&VB at Dow Corning she is involved in work on polymer-based variable optical attenuators.

**Education:** B.Sc. Applied Biology and A.A.S Industrial Chemistry Technology, Ferris State University, Big Rapids, Michigan.

**ACS Activities:** Joined 2000. Member ACS Awards Committee for two consecutive years; currently serves as a Secretary for Midland Section ACS for 2005.

### **Pamela Halpin**

**Professional Experience:** Elemental section of Analytical Sciences group, Dow Corning, 2002–present; focus: mass spectrometry.

**Education:** B.S. Chemistry, Indiana University Bloomington, 1996; Ph.D., Northern Illinois University, 2001; post doc, US FDA, Cincinnati.

**ACS Activities:** Joined 1997.

**Other Information:** Active in the Chicago section of the Society for Applied Spectroscopy while at Northern Illinois University; held several offices and organized several meetings.

## *Candidates for Treasurer*

### **Darren M. Hansen**

**Professional Experience:** Associate Bulk Growth Specialist, Dow Corning Compound Semiconductor Solutions

**Education:** B.S.E Chemical Engineering, University of Michigan, 1995;

Ph.D. Chemical Engineering, 2001, Dissertation: "Low Pressure Chemical Vapor Deposition of Borosilicate Glasses and their Application to Wafer Bonding."

**ACS Activities:** Joined 2002.

**Other Information:** Member Materials Research Society.

### **Csillar Kollar**

**Professional Experience:** Joined Dow Corning, 2000; Associate Research Specialist in Advanced Technology and Ventures, Dow Corning Corporation; Before Dow Corning: Analytical Chemist Roberson Microlit Laboratories and Novartis Pharmaceuticals.

**Education:** B.S. and M.S. Chemical Engineering, Technical University of Budapest, 1987 and 1990

**ACS Activities:** Joined 2000.

**Other Information:** Currently working on various bioscience research activities which involves close collaboration with Genencor biotech company; previously developed expertise in surface modification technologies, and rubber development; coauthor of seven US, three EP, and four WO patents.

## *Candidates for Councilor*

### **Bob Howell**

**Professional Experience:** Presently Professor, Organic/Polymer Chemistry, Department of Chemistry, and Director, Center for Applications in Polymer Science, Central Michigan University.

**Education:** B.A., Chemistry, Berea College, 1964. Ph.D., Physical Organic Chemistry, Ohio University, 1971. Postdoctoral Associate, Organometallic Chemistry, Iowa State University, 1971–74. Industrial Internship, Polymer Science, Dow Chemical Company/Polymer Division ACS, 1985. Industrial/Academic Faculty Exchange, Polymer Science, 1990.

**ACS Activities:** Joined 1964. Currently Councilor. Current member and former Chair of the Joint-Board Council Committee on Patents and Related Matters. Member of the Organic Chemistry Examinations Committee. Member POLYED Committee. Member Polymer Nomenclature Committee. Served as Alternate Councilor, 1985–92. Have served in numerous capacities at the local level including Section Chair, 1983, 1984; member Board of Directors 1993–present; member and chair of many committees (currently Program Committee, Scholarship Committee, Legislative Affairs Committee, Nominations and Elections Committee); Project SEED preceptor, 1979–present; recognition award, Council Committee on Project SEED, 2003; organized short courses and symposia for

several Fall Scientific Meetings and Central Regional Meetings; chaired sessions at various national meetings. Currently serve on ASTM Committee E-37 on thermal methods. Member of the NATAS Executive Board; NATAS Past President; NATAS Fellow.

### **Mustafa Mohamed**

**Professional Experience:** Adhesion and Material Science Group, Dow Corning, 2003–present; Electronic and Advanced Materials Group, Dow Corning, 2001–2003 (synthesis of low CTE materials and development of both silicone and epoxy adhesive formulation).

**Education:** B.Sc. Chemistry, University of Toronto; Ph.D. Organosilicone Chemistry, McMaster University.

**ACS Activities:** Joined 2001.

## *Candidates for Alternate Councilor*

### **Ronda L. (Benson) Grosse**

**Professional Experience:** Analytical chemist and group leader positions in Carrollton, Kentucky, 1992–1997, and Midland, MI, 1997–present, Dow Corning; research scientist, Kanagawa Academy of Science and Technology, Japan, 1991; Analytical Sciences Fellow, Dow Chemical Company, 1988. Areas of interest: molecular spectroscopy, chromatography, GC-MS

**Education:** B.S. Chemistry, Bethel College, St. Paul, Minnesota, 1988; Ph.D. Analytical Chemistry, The Ohio State University, Columbus, Ohio, 1992

**ACS Experience:** Joined 1988. National Chemistry Week committee, 1993–1995 (Louisville, Kentucky ACS section); Midland Fall 1998 Meeting Session Chair; Midland Fall 1999 Meeting Program Coordinator

### **Dale LeCaptain**

**Professional Experience:** Assistant professor of chemistry CMU, 2001–present. Current research interests: green chemical process and product development; spectroscopic applications in process chemistry.

**Education:** B.S., University of Wisconsin LaCrosse; Ph.D. Analytical Chemistry, Michigan State University, 1999. Post doctoral research associate at MSU and Colorado State University, 1999–2001.

**ACS Activities:** Joined 1995. My involvement with ACS at the national level has been through presentation of my research, I typically try to present or encourage my students to present research once per year. At the local level I co-chaired the 58th, 59th, and 60th annual Fall Scientific Meetings. Currently, I am very active with the local YCC and strive to incorporate CMU's Student Affiliates into local and national ACS participa-

tion. A priority I feel for the local and national ACS is the inclusion of our young chemists, realizing today's "new" chemists are very diversified in their background and career aspirations. I want to work towards gaining more participation of our younger chemical professionals and to continue developing the camaraderie that will clearly show in our outreach efforts.

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

### **Shanneth Thomas**

**Professional Experience:** Dow Corning Corporation, 2005–present.

**Education:** B.S. Chemistry, Prairie View A&M University, Texas; M.S. Materials Science, Norfolk State University, Virginia.

**ACS Activities:** Joined 1998. Attended and presented at their National Conferences on graduate research; graduate work has since been published in the *Journal of Polymer Science: Part A. I*; participated in the Annual Graduate Polymer Conference; an active member of NOBCCChE and NSBE; active in recruiting students to join, always stressing the benefits of an ACS membership. I would like to take this opportunity to further contribute to ACS.

### **Brett Zimmerman**

**Professional Experience:** Senior Chemist, Dow Corning Corporation, 1996–2005; Manteq and TAD Contract Services at Dow Corning Corporation, 1994–1996.

**Education:** B.S. Chemistry, Central Michigan University.

**ACS Activities:** Joined 2004; Exposition Chair for 2006 ACS CRM; helped with Project Science Literacy through school demonstrations and on-site job shadowing (2004–present).

**Other Information:** 2 external publications, 7 U.S. patents, special interests include elementary science education particularly via school demonstrations (active since 1996) and colloid science.

## ***Candidates for Director***

### **Doug Beyer**

**Professional Experience:** Currently Research Associate, Saran Barrier Systems R&D, The Dow Chemical Company; various research positions within The Dow Chemical Company, 1975–present; various research appointments, Dow Corning Corporation, The Dow Chemical Company, Swedish Forest Products Research Institute, 1969–1974.



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**Education:** M.S. Organic Chemistry, University of Wisconsin, 1975; B.S. Chemistry, Michigan State University, 1974

**ACS Activities:** Joined 2000. Director, 2004–2005; Midland Section treasurer, 2001–2004; served on various scientific meeting committees.

**Other Information:** Volunteer, business, and finance advisor, Junior Achievement, Midland, 20 years.

### Connie Murphy

**Professional Experience:** Sr. R&D Specialist, The Dow Chemical Company, 2003–present; R&D Technologist Leader, 2000–2003; Sr. R&D Technologist, 1994–2000.

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

**ACS Activities:** Joined 1992. Service in ACS National Offices: Committee on Committees, 2004–05; Committee on Membership Affairs, 1999–04, Committee Associate, 1998; Committee on Technician Affairs, 1997–99, Consultant, 1999–05.

**Service in ACS Offices:** Joined 1992. Division of Chemical Technicians: Councilor, 1998–06; Chair, 1996; Chair-Elect, 1995; Strategic Planning Committee, 2000–01; Webmaster, 1996 to 2004; Member-at-Large, 1994; Nominations and Elections Committee, 1993; Regional Coordinator, 1992–95. Midland Section: Elected Board Member, 2000–05; Membership Growth and Retention Chair, 1999 to date. 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; Polymeric Materials: Science and Engineering.

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

### Ann F. Birch

**Professional Experience:** Free-lance technical writer and editor and co-owner of Editech, a Midland-based technical communications firm, 1984–present; research chemist, The Dow Chemical Company, 1973–1984.

**Education:** B.S. Chemistry, South Dakota School of Mines and Technology, 1973.

**ACS Activities:** Joined 1976; editor of *The Midland Chemist*, 2000–present; webmaster, 1998–2002 and 2005–present; database manager, 1998–2002 and 2004–present; director, 1998–2004; secretary, 1997–1998; layout design for ACS Teachers' Affiliate Newsletter, 1992.

## **Deborah L. Meyers**

**Professional Experience:** Currently Leader of the Emulsion Technology Platform within Specialty Chemicals Business S&T, Dow Corning. Responsibilities include bringing forward new emulsion technology applicable to LS and PI applications; Personal Care, Dow Corning, 1998–2002; Silicone Modified Organics group, Dow Corning, 1996–1998; Personal Care and Home Care, DowBrands R&D, 1992–1996; Emulsion Polymers R&D, Dow Chemical, 1984–1992.

**Education:** B.A. Chemistry, Lewis University, Lockport, Illinois; Ph.D. Chemistry, Texas A&M University, College Station, Texas.

**ACS Activities:** Joined 1984.

## **John Blizzard**

**Professional Experience:** I retired from Dow Corning in 2001 after 35 years in QA, R&D and TS&D. I am named on 35 U.S. patents and over 15 technical presentations and publications. Retirement lasted a whole six months. With three others who retired from Dow Corning, we started a silicone consulting company, QuadSil Inc. We currently own and operate two laboratories, one in Midland and one in Roscommon. QuadSil has an international clientele, providing consultation, contract research and development and EPA certified drinking water testing.

**Education:** Bachelors degree Chemistry from KWU.

**ACS Activities:** Joined 1993. 1989 National Chemistry Day; 1990–2004 NCW; 1995–present Project Science Literacy; 2003–present Saginaw Bay Watershed project; 1995–2001 ACS National NCW Task Force; 1995–96 ACS National Safety Task Force, Sci-Fest, ACS National and Regional Meeting volunteer and speaker, Midland County Fair and Kids in Chemistry volunteer.

**Awards and Honors:** 7 awards and honors received since 1997. Among these are ACS Salute to Excellence Award.

**Other Information:** I am proud to be a member of ACS and the Midland Section. The people that make up the ACS are dedicated, highly motivated people. I have found that working with these people has been my greatest reward of being an ACS member. I also think this is the greatest challenge in the ACS, that is, finding and providing opportunities and programs that interest and allow these dedicated individuals to share their talent and experience with others and the ACS.

Another challenge for the Section is to create and nurture closer relationships with industry sponsors, potential industry sponsors and the communities we serve. I believe this will provide even greater potential and benefits for our Section.

## Robert Dion

**Professional Experience:** I held a one year post-doctoral position investigating organometallic chemistry at Yale University, then moved to Midland to work for The Dow Chemical Company. I have been working on polymer related synthesis and the determination of structure-property relationships for thermoplastic structural parts and films at The Dow Chemical Company since 1984.

**Education:** BA Chemistry, Kalamazoo College; Ph.D. Synthetic Organic Chemistry, Yale University.

**ACS Activities:** Joined 1979.

## YCC Members Float their Boats

*By Joel Kern and Buford Lemon*

One of our goals as chair of the Younger Chemists Committee and chair-elect of the Midland Section ACS was to increase participation and interaction of younger chemists, especially those attending or working at CMU. To further this goal, the Midland Section ACS YCC held the first annual "River Rider" outing at Chippewa River Outfitters. Three CMU faculty members and a dozen or so students and co-ops joined 25 other younger chemists (many YCC first-timers!) for the float, feasting on sub sandwiches during the day. T-shirts commemorating the event were prepared (boldly proclaiming "First Annual" in recognition that this isn't a one-time event!). The event was promoted by both the YCC and the CMU Student Affiliates of the ACS. We'd like to thank all who participated and welcome your comments or suggestions for future events.

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#2361h

## Ballot for Election of 2006 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 (inner) envelope. Place the ballot envelope in the return envelope and sign and print your name on the return (outer) envelope. You **must sign** your name on the **outer envelope** to have your ballot counted. See #4 below.
4. In order to vote, you 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, 2005.**

Attn: Nominations and Elections Committee  
Midland Section ACS  
P.O. Box 2695  
Midland, MI 48641-2695

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### BALLOT

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

Dee Strand

**SECRETARY** (vote for one)

Aneta Clark

Pamela R. Halpin

**TREASURER** (vote for one)

Darren Hansen

Csillar Kollar

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

Shanneth Thomas

Brett Zimmerman

**COUNCILOR** (vote for one)

Bob Howell

Mustafa Mohamed

**ALTERNATE COUNCILOR** (vote for one)

Ronda Grosse

Dale LeCaptain

**BOARD OF DIRECTORS** (vote for three)

Doug Beyer

Robert Dion

Ann Birch

Deb Meyers

John Blizzard

Connie Murphy



**18th Anniversary of  
National Chemistry Week  
at  
Sci-Fest 2005**



**Delta College Pioneer Gym  
Saturday, October 15, 2005  
10:30 a.m.–2:30 p.m.**

**Theme: The Joy of Toys**

Special Science Demonstrations for Kids of All Ages and  
Information on Science Programs Available in Your Area

Center Stage:  
Pit and Balcony's "Crash, Boom, Bang"  
Creative Spirit Center Flutes and Drums

Sponsored by Midland Section ACS, Delta College, and Mid-  
Michigan Technician Group  
For more information, call Dave Stickles at 989-496-3273.

## MMTG/Midland Section Professionals Day— Another Hit!

*By Buford Lemon, Rebecca Swanson, Lena Nguyen*



**T**he 2005 MMTG/Midland Section Professionals Day, held on August 1<sup>st</sup> once again brought together people of all ages to enjoy science demonstrations, snacks, and a cool drink, all courtesy of the Mid-Michigan Technician Group and the Midland Section of the ACS. Those families lucky enough to stop by were greeted by discounted ride bands, popcorn, Snocones, a moonwalk, and a full science demonstration set-up. Although our advertising blitz was a bit smaller than years past, about 200 people visited Professionals Day, and 110 discounted ride bands were sold. About 75% of the visitors to the science demo booth were first-time visitors. The children greatly appreciated having this opportunity to learn and do some of the experiments—some of them repeated an experiment over and over until their moms dragged them away to the fair. The excitement and “oohs and ahhs” received from the children were priceless.

We'd like to thank our volunteers—without their hard work, time, dedication, and energy, this event could not happen (past, present, or future). Wendy Mathews, Paul Popa, Mike Ferrito, Jennifer Dingman, Ying and Sean Tang, Grace Wan, Emilee Nagy, and Brien Haight should all take a bow for their hard work and dedication (applause, applause). Five of the volunteers were first-timers! Special thanks go to Lena Nguyen and Dave Stickles for coordinating the science demonstrations under great time pressure, and Wendy Mathews for rallying and gathering all of the necessary goods, people, and contacts to ensure this event's success.

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# Councilor Report—230<sup>th</sup> ACS National Meeting

*By Tom Lane and Bob Howell, Councilors*

**T**he 230th National Meeting of the American Chemical Society was held in Washington, D.C., from August 28 through September 1, 2005. At the meeting ACS recognized the Dow Corning Foundation at a special “Thanks a Million” luncheon which celebrated the corporate donors who contributed at least \$100,000 to the ACS Scholars Program. To date, ten companies have donated at the \$100,000 level. Tom Lane, vice president of the Dow Corning Foundation, accepted the award on behalf of the Foundation. Since its inception in 1994, the American Chemical Society’s scholarship program has provided support for underrepresented students studying the sciences. The program has helped 1,477 talented students pursue their dreams of a degree in the chemical sciences.

Corporation Associates awarded the CRM a \$5000 programming grant. This is in addition to programming grants from the Analytical Division (\$1000), Petroleum Division (\$1000), and Polymer Division (\$500).

In sharp contrast to last year, the Midland Section received three nominations for ChemLuminary Awards (last year we received eight nominations) but, unfortunately, the Section did not receive any of these awards.

The ACS Heroes of Chemistry program recognized 18 chemical professionals from five corporations for their outstanding contributions to our lives. Since 1996, the ACS Heroes of Chemistry program has recognized chemical scientists whose work in various fields of chemistry and chemical engineering has led to the successful innovation and development of commercial products based on chemistry. This is an outstanding program and a significant opportunity for the Midland Section to help celebrate those heroes who practice in our local section.

## **Actions of the Council**

### ***Election Results***

The Committee on Nominations and Elections presented to Council the following slate of nominees for membership on the Committee on Committees for the 2006-2008 term: Cherlynlavaughn Bradley, William H. (Jack) Breazeale, Jr., Theodore M. Brown, Michael J. Brownfield, Peter K. Dorhout, Alan M. Ehrlich, Jurgen H. Exner, Mamie W. Moy, Connie J. Murphy, and Don B. Weser. By written ballot the Council elected **Cherlynlavaughn Bradley, William H. (Jack) Breazeale, Jr., Peter K. Dorhout, Mamie W. Moy, and Connie J. Murphy.**

The Committee on Nominations and Elections presented to Council the following slate of nominees for membership on the Council Policy

Committee for the 2006–2008 term: R. Gerald Bass, Martha L. Casey, Alan B. Cooper, Catherine E. Costello, M. Elizabeth Derrick, Janan M. Hayes, Ann H. Hunt, Valerie J. Kuck, Bonnie A. Lawlor, and Charles E. Thomas. Councilors were informed that Stephen T. Quigley was nominated as a petition candidate. By written ballot the Council elected **R. Gerald Bass, Martha L. Casey, Janan M. Hayes, Valerie J. Kuck, and Bonnie Lawlor.**

The Council Policy Committee presented to the Council the following slate of nominees for membership on the Committee on Nominations and Elections: David E. Bergbreiter, David S. Crumrine, Steven A. Fleming, Michelle M. Francl, Peter C. Jurs, Roger A. Parker, Robert A. Pribush, Sara J. Risch, Herbert B. Silber, and John T. Yates, Jr. By written ballot the Council elected **Steven A. Fleming, Michelle M. Francl, Peter C. Jurs, Roger A. Parker, and Sara J. Risch.**

### ***Candidates for President-Elect and Board of Directors***

The Council was informed that John W. Kozarich had withdrawn as a candidate for president-elect. The candidates for the fall 2005 ACS national election were announced as follows:

#### President-Elect 2006

George E. Heinze, Rockland Technimed, Ltd, New York

Catherine T. Hunt, Rohm and Haas Company, Pennsylvania

#### Directors-at-Large 2006–2008

James D. Burke, Retired, Rohm and Haas Company, Pennsylvania

Edwin A. Chandross, Materials Chemistry, LLC, New Jersey

C. Gordon McCarty, Retired, Bayer Corporation; Adjunct Professor  
University of South Carolina

Frankie K. Wood-Black, Conoco Phillips, Texas

#### Director, District III 2006–2008

Catherine C. Fenselau, University of Maryland

Madeleine M. Joullié, University of Pennsylvania

#### Director, District VI, 2006–2008

Bonnie A. Charpentier, Genitope Corporation, California

Stanley H. Pine, California State University

### ***Petition Withdrawn***

The Committee on Nominations and Elections withdrew its petition on election procedures prior to the spring national meeting. This action was to allow the committee to discuss further the issues raised by the Committee on Constitution and Bylaws and to solicit additional input from councilors and other members. The withdrawn petition appeared in the agenda for information only.



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### ***Registration Report and 2006 National Meeting Registration Fee***

As of August 30, 2005, the ACS fall national meeting had attracted 13,040 registrants as follows: Regular attendees 7,584; Students 2,715; Guests 478; Exhibit Only 468; and Exhibitors 1,795. The 2006 national meeting registration fee of \$305 was announced.

### ***Membership Statistics***

The Council was informed that as of July 31, 2005, total ACS membership was 155,567. This is an increase of 282 over the end of July 2004.

### ***Special Discussion Item***

A special discussion item was again put on the Council agenda for this meeting. ACS President William F. Carroll described the process being used to develop a Society vision hypothesis that is to be tested with members, customers, governance, and other interested parties. Dr. Carroll described the methods used to get member input at the national meeting. ACS national meeting attendees reported 15 common themes to be considered as important to the Society's future. Dr. Carroll sought Council input on the most frequent themes: diversity, young people, governance, multidisciplinary, globalization, and outreach. Councilors then engaged in a thoughtful, yet lively exchange of their vision of the Society's long-term future.

### ***Local Section Action***

On the recommendation of the Local Section Activities Committee, the Council approved a petition for change in section territory for the Central New Mexico Local Section. The annexation is intended to improve services to the ACS members in the northern New Mexico area.

### ***Constitution and Bylaws***

On the recommendation of the Committee on Constitution and Bylaws, the Council approved revised charter bylaws for new local sections and for international chemical sciences chapters.

### ***Actions of the Board of Directors***

#### ***The Board's Committees and Task Forces***

The Board, through its Committee on Grants and Awards, approved the following: nominees for both the 2006 Perkin and Othmer Gold Medals; actions relative to pilot programs of the Petroleum Research Fund; continuation of the Fund's 1% distribution to the Green Chemistry Institute; and approval of a new national award, the ACS Award for Achievement in Research for the Teaching and Learning of Chemistry, sponsored by

Prentice Hall Publishers.

On the recommendation of the Board Committee on Public Affairs and Public Relations, the Board voted to designate the development of Rumford Baking Powder as a national historic chemical landmark.

The Board approved actions resulting from the Member Satisfaction Survey, and from the Board-Presidential Task Force on Multidisciplinarity as prioritized by the Committee on Professional and Member Relations (P&MR). The Board also authorized P&MR to develop or ensure the development of action plans for implementation of the task force recommendations in coordination with other appropriate Society entities.

The Board also received a status report on the activities of the Joint Board-Council Policy Committee Task Force on Governance Review. This task force is charged with conducting a review of the Society's governance structure and Constitution and Bylaws to ensure that the Society has a governing framework to enable it to best fulfill its mission, meet member needs, and remain a world-class organization.

### ***The Society's Promotion of Diversity***

The Board received reports from both the Committee on Professional Training (CPT) and the Committee on Minority Affairs (CMA). CPT briefed the Board on recent training workshops relative to historically black colleges and universities and other African American-serving institutions; and CMA overviewed activities of the ACS Scholars Program. The Board voted to continue the Scholars Program through 2010.

### ***The Society's Publications***

The Board voted to approve the reappointment of several of its journal editors.

### ***The Society's Staff***

The Board received a report from the Executive Director/CEO and several of her direct reports on the activities of the Publications Division, Chemical Abstracts Service and the Society's General Counsel. The Board also reviewed and approved recommendations from the Committee on Executive Compensation on compensation for the Society's executive staff. The compensation of the Society's executive staff receives regular review from the Board.

### ***The Society's Finances***

The Board, through the Committee on Budget and Finance, voted to include requests for funding of the following programs in the development of the Society's 2006 proposed budget:

- A two-year pilot program for ACS High School Chemistry Clubs
- ACS activities in connection with the International Science and Engineering Fair
- A leadership development program that delivers capable, effective, and motivated leaders for volunteer roles throughout the Society
- Reauthorization of and continued funding for the Green Chemistry Institute
- A complete reinvention of the Society's Web Presence

### ***Councilor Briefing on ACS Executive Compensation***

ACS Councilors were invited to a special briefing on Society executive compensation following the Council meeting. The briefing focused on process: what the Society executive compensation system consists of and how it is benchmarked.

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## **In Past Issues of *The Midland Chemist***

*By Wendell L. Dilling, Midland Section Historian*

- **40 Years Ago This Month**—Between twenty and thirty professors from colleges and universities in Michigan and surrounding states will be attending the E.C. Britton Symposium on Industrial Chemistry in Midland on October 14 and 15. This is an ACS-sponsored function, and members are invited to attend the noon luncheon on Thursday, October 14, at the Dow Corning cafeteria to get acquainted with our academic guests. Tickets for this Cornish hen luncheon are available at our cost of two dollars.
- **30 Years Ago This Month**—October Meeting, Spouse's Night, October 16th, Schweitzers North, 6:00-7:00 - Cocktails, 7:00 - Dinner, Speaker - Dr. Wm. McClure, University of Illinois, Topic: "Butterflies of the Soul; A Chemist's View of Mental Illness," \$6.00/Person.
- **20 Years Ago This Month**—Dr. John D. Hoffman, Professor, Department of Chemical and Nuclear Engineering, University of Maryland and Director of their Engineering Materials Program, has been named Director of the Michigan Molecular Institute effective September 3, 1985. Hoffman replaces Robert E. Hefner, MMI Interim President and retired Director of Dow Central Research.
- **10 Years Ago This Month**—From the Chair... column by Fran Voci: This month I want to share with you my personal reactions to being Chairman of the Midland Section. After holding this office for nine months, I am filled with awe at the energy and commitment that I see in our members and leadership. Although not every Board meeting is energizing, the September meeting certainly was.

## **Important Dates on the ACS Midland Section Calendar**

- Oct. 10 Midland Section board meeting, Delta College Midland Center, 7:00 p.m., room number will be posted at the Center.
- Oct. 14 Fall Scientific Meeting, Dow Employee Development Center (Gregg Potter, 989-636-6310).
- Oct. 15 Sci-Fest, Delta College, 10:30a.m.–2:30 p.m. (Dave Stickles, 989-496-3273).
- Oct. 25 Deadline for return of election ballots.
- Nov. 14 Midland Section board meeting, Delta College Midland Center, 7:00 p.m., room number will be posted at the Center.
- Nov. 14 Deadline for December issue of *The Midland Chemist*.
- Dec. 12 Midland Section board meeting, Delta College Midland Center, 7:00 p.m., room number will be posted at the Center.

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**AMERICAN CHEMICAL SOCIETY**  
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