



Connie Murphy (left) accepting the 2008 Outstanding Service to the American Chemical Society award from Chair Dorie Yontz. Other award winners included Jack Kruper for the 2008 Outstanding Achievement and Promotion of the Chemical Sciences award and Sue Perz for the Outstanding Chemical Technician award.



Fall Scientific Meeting Offers Technical Updates, Professional Recognition, Student Projects, and more. See pp. 3–13.

See results of Section election, pg. 14.

THE MIDLAND CHEMIST

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From the Chair

2008 Comes to a Successful Close

Our election is over and we have a new board ready to take office in 2009! My thanks to all of you who ran for office and were willing to serve. Although the board is important for the governance of our Section, the most critical body, in my opinion, is our strong base of volunteers who keep our Section running. So, I'd like to extend a big thank you to all of our volunteers who have given of their time throughout the year. We're starting to fill committee positions for 2009, so if you would like to take a leadership role or serve on one of the committees, please contact either Angelo Cassar (angelo.cassar@chartermi.net), our Chair for 2009, or me (dyontz@dow.com).



Dorie Yontz, Chair
ACS Midland Section

Our Section has continued its excellent work with our strong technical programs and our education/outreach efforts. I'd like to take a moment to review our extensive list of events to showcase the hard work of the Section over the past year.

- We just held our annual Fall Scientific Meeting, our premiere technical event, where we had the privilege of recognizing three of our members, Jack Kruper, Sue Perz, and Connie Murphy for outstanding achievement and service.
- Through our Weyenberg Travel Grants, we helped a number of college students present their research at the national ACS meeting.
- We co-sponsored the Turner Alfrey Visiting Professorship at MMI, thereby allowing any ACS member to attend the lecture series free of charge.
- We brought in two technical speakers from the National ACS speaker circuit to talk about alternate energy sources and flavor chemistry.
- We sponsored two SEED students, Angela Cluley (Anja Mueller, CMU Chemistry, mentor; "Heavy Metal Ion Removal from Wastewater by Imprinted Polymers") and Tabitha Stauffer (Francis Fournier, Dow Corning Corp, mentor; "Technology Screening of Novel Siloxane Materials and their Application in Coatings"). This excellent program, co-sponsored by the Midland Section and National ACS, provides the opportunity for economically disadvantaged high school students to earn a salary while learning about science by working in a research lab over the summer.
- Our Science Literacy team was invited to PittCon in New Orleans to train teachers about how to conduct chemistry experiments using com-

mon household materials.

- Activities in schools included Chemistry Olympiad, mentoring.
- We held a celebration of Earth Day (“Streaming Chemistry”) in partnership with the Midland Center for the Arts.
- We highlighted our offerings for teachers at the Educator Open House at Midland Center for the Arts.
- We celebrated Professionals Day at the Midland County Fair.
- Our annual SciFest (theme of “Having a Ball with Chemistry”) brought together a series of activity booths and demonstrations for the whole family.
- We partnered with Dow Chemical Public Affairs to bring science demos to the Halloween Harvest at the Saginaw Children’s Zoo.
- We used our Science Café grant from National ACS to partner with the Grace A. Dow Library, Girl Scout Troop 370, and Lactation Management Series to bring a free event called “Chemistry, Food, and You” to illustrate how chemistry plays a role in the most basic human need, food.

As you can see, a lot of people put in a lot of work to make our Section successful. Please join us!

Dorie J. Yontz

Volunteer Opportunity

Volunteers are needed for 2009 committee positions and other Midland Section activities. Contact Dorie Yontz (dyontz@dow.com) or Angelo Cassar (angelo.cassar@chartermi.net) for more information.



THE DOW CHEMICAL COMPANY

Fall Scientific Meeting Features Scientific Presentations, Posters

By Mike Owen

The 2008 Midland Section ACS Fall Scientific Meeting was held on Friday, October 24, 2008, at the Midland Center for the Arts and attracted 245 attendees. It was the 64th such meeting held by the Midland Section annually since 1945. The theme of the meeting was “Materials for the 21st Century.” After welcoming comments by Section Chair Dorie Yontz and FSM Co-Chair Mike Owen, the Section awards were presented by Scott Gaynor, Awards Committee co-chair, and Dorie to this year’s recipients. Jack Kruper received the award for Outstanding Achievement and Promotion of the Chemical Sciences; Connie Murphy the award for Outstanding Service to the American Chemical Society; and Susan Perz the award for Outstanding Chemical Technician. Congratulations to these worthy winners. Following the presentation of the awards we recognized the 50-, 60-, and 70-year members of the American Chemical Society. More details on all of the awards are given on pp. 6-13.

The Keynote Speaker was Prof. Manoj K. Chaudhury of Lehigh University. The title of his presentation was “Surface Modification of Organic and Inorganic Materials.” Manoj treated us to a splendid lecture on the most important new developments in surface modification technologies. In recent years there has been a great surge of interest in this field, and this topic was an excellent fit with our theme. This visit was a kind of home-



Keynote Speaker Prof.
Manoj Chaudhury



Registration for the FSM was coordinated by CMU student affiliates.

coming for Manoj in that he spent part of his career here in Midland at Dow Corning Corporation and for some years held the Dow Corning Chair Professorship at Lehigh University before becoming the Franklin J. Howes Jr. Distinguished Professor.

Three mini-symposia by invited speakers were

also organized around our theme on the topics of Photovoltaics, Chemical Sensors, and Nanostructured Surfaces, chosen to be of particular interest to the Mid-Michigan scientific community. The organizers of these symposia, Ethan Good, Steve Keinath, and Mustafa Mohamed, are to be warmly complemented on the quality and diversity of the speakers that they invited. The aim was to strike a balance between local industrial and academic presenters and in this they succeeded admirably. We were also very pleased to have participants from rather further away.

We also had 12 vendors exhibiting their products and services and over 40 posters in the poster session designed for local industry and university participation. Grace Wan was the winner of the vendor drawing, taking home a new iPod Nano. One extremely welcome new initiative in the poster session was a \$500 prize sponsored by Dow Corning Corporation for the best undergraduate poster. This was judged by the keynote speaker and the poster chair, Brad Fahlman, with the prize going to Blake Reed of Alma College. The poster session and the vendor exhibition were held together in the brick lobby of the Center for the Arts, while the mini-symposia were held in three of the meeting rooms of the center. This venue was chosen because of the favorable response of

attendees and participants to its use for the first time last year. The meeting was preceded by an excellent lunch catered by Northwood University. Following the formal meeting, a social hour funded by contributions from the vendors was held at Oscar's Restaurant followed by the Speakers Banquet at d'Alessandro Villa.



Lunch was provided by Northwood University caterers.



The vendor exhibit was well attended. Vendors sponsored the social after the meeting.

Our grateful thanks are extended to all who enabled this meeting to be the success that it was, including committee members, invited speakers and poster presenters, and Midland Center for the Arts staffpersons Debbie Anderson and Bruce Winslow.

2008 Midland Section FSM Committee Volunteers

Mini-Symposia Chairs	Ethan Good, Steve Keinath, Mustafa Mohamed	 <p><i>Paul Satoh, Neogen Corp., was one of the symposia speakers.</i></p>
Poster Session	Brad Fahlman, Joel Kern	
Vendor Exhibition	Brett Zimmerman, Eric Joffre	
Programs/Website	Ann Birch	
Publicity	Anne Kelly-Rowley, Pankaj Gupta	
Registration	Dale LeCaptain/CMU Student Affiliates	
Social/Banquet	Dorie Yontz	
Lunch	Petar Dvornic	
Photography	Angelo Cassar	
General Chairs	Petar Dvornic, Mustafa Mohamed, Mike Owen	



There were over 40 posters presented from industry and academia.

Midland Section Honors Section Area Professionals

By Scott Gaynor

2008 Midland Section Award for Outstanding Achievement and Promotion of the Chemical Sciences – Jack Kruper

Dr. Jack Kruper has been a researcher at The Dow Chemical Company since 1981. Today Jack is a senior scientist, one of the highest levels of achievement for a researcher at Dow. Over his career at Dow he has worked on a diverse number of projects, including the copolymerization of CO₂ and epoxides, the development of new catalyst systems for the polymerization of ethylene, new oxidation chemistries, new chemicals for radio therapy applications, the development of non-halogenated flame retardants, and most recently on renewable feedstocks.



To quote from his nomination packet: “Jack anticipated the impending glut of glycerin available as a coproduct of biodiesel, and initiated and led the effort to develop a low-cost process to produce epichlorohydrin from glycerin. Dow recently announced the intention of building a world-scale production facility based on this technology.” Further, Jack has made it a priority to mentor and develop the next generation of researchers at Dow. He has set the standard for others by his rigorous focus on the scientific method, staying current with the literature, relating business needs to technology in the lab, and through his hands-on experimental research.

Jack has B.S. and Ph.D. degrees from the University of Michigan and is the author of 61 internal Dow reports and 32 external publications and is the inventor on over 55 patents.

2008 Midland Section Award for Outstanding Service to the American Chemical Society – Connie Murphy

Connie Murphy began her career as a technologist at The Dow Chemical Company in 1980, specializing in monomer and polymer synthesis and processing for 20 years. Beginning in 2000 she held both technical and supervisory positions and prior to her recent retirement was a senior administrative supervisor, supervising IT professionals.

Connie’s contributions both to her discipline and to the ACS have been widely recognized. She received the Dow Central Research Scientists Organization Outstanding Technologist Achievement Award in 1994 and has

obtained five patents. In 1997 she received the Midland Section ACS Outstanding Chemical Technician Award. She has been a member of the Mid-Michigan Technician Group (MMTG) since 1991, a member of the ACS and the Midland Section since 1992, and a member of the ACS Division of Chemical Technicians since 1992. She has been very active in all these organizations, serving as membership chair and director for the Midland Section and chair of MMTG, along with other positions, all while contributing widely on the national level, serving on national ACS and division committees, including chair of the Division of Chemical Technicians.



Connie obtained an A.A.S. degree in chemical technology from Milwaukee Area Technical College. She has been a member of Phi Theta Kappa and completed undergraduate coursework at the University of Wisconsin with a major in secondary education (math/chemistry).

Connie has been a member of the Delta College Chem Tech Program Advisory Board since 1995 and a participant in ACS "Visits on the Hill" for science advocacy since 2006. She was chair of the National Visiting Committee for an NSF-funded project in chemical technologist curriculum development and a co-principal investigator for an NSF-funded project to incorporate workplace skills and safety in high school chemistry.

2008 Midland Section Award for Outstanding Chemical Technician – Susan Perz

"Sue is the most productive technician that we have ever worked with."
"Sue is the best technician that I have ever worked with." These quotes are how Sue Perz is described by her nominators. Since becoming a technician at Dow Corning in 1990, Sue has established a considerable track record. She has authored or co-authored 65 internal technical reports, but more noteworthy, she has over 44 publications in the open literature including peer-reviewed journals, and 15 patents.

Sue has done considerable work in the area of silicon-containing dendrimers for use as release coatings. This work led to two Dow Corning Technical Achievement Awards: "System D Curable Silicone-Organic Material" in 1996 and "Release Force Understanding" in 1998.

Sue has been active in the local ACS section as well as the Mid-Michigan Technician Group, serving as either a director or delegate for MMTG since 2000. Her other professional activities include serving as treasurer of the Michigan Microscopy and Microanalysis Society, as well as director of the newly formed Dow Corning Technician Group.

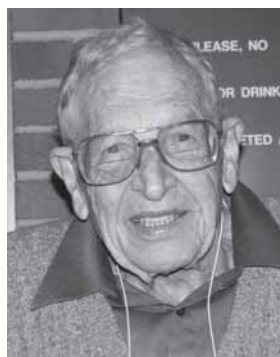
Midland Section Recognizes Longtime Members

By Peggy Hill

This year, eleven Midland Section members celebrated milestones in their participation in the ACS, five who have reached their 50th year of membership, five celebrating their 60-year membership, and one who has been an ACS member for 70 years. The Midland Section was proud to acknowledge these milestones and the many contributions made by these individuals to the field of chemistry. Formal recognition took place at the Fall Scientific Meeting, held October 24 in Midland. Please see pp. 12-13 for a complete list of longtime members.

Seventy-Year Member

Richard W. Von Korff became an ACS member in 1938, one year after he began work as an analytical chemist for Deere & Co. A couple of years later, in 1941, he went to work as a junior chemist for the U.S. Department of Agriculture. Richard left in 1944 to attend college at the University of Minnesota in Minneapolis. Graduating with a B.A. in 1947, he continued on at UMN in graduate studies and completed his Ph.D. in 1951. He then took a post-doctoral research position at the University of Wisconsin (Madison) and worked on coenzyme A for two years.



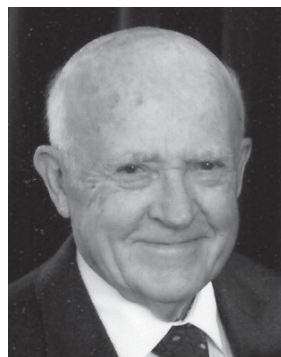
Moving back to the University of Minnesota in 1952, Richard was awarded a Helen Hay Whitney research fellowship to work on heart mitochondria metabolism. In 1953, he joined the faculty ranks at UMN as an instructor and then subsequently moved up to assistant and associate professor positions over the course of a few years. In the 1960s, Richard moved to the University of Maryland, where he continued his research and teaching, specializing in the study of mitochondrial enzymes. Finally, in the late 1970s, Richard came to the Michigan Molecular Institute as a research professor, where he stayed until his retirement in 1985.

Richard now enjoys traveling and working on his computer. He very much misses his inspiration, Jane Rehn, his wife of many years, who passed away a few years ago.

Sixty-Year Members

Etcyl Blair earned his bachelor of science at Southwestern College (Winfield, Kansas) in 1947 and two years later, a master's degree at Kansas

State University. He stayed at Kansas State, earned a Ph.D. in 1951, and then took a position with The Dow Chemical Company, where he stayed until his retirement. Starting as a research chemist in agricultural synthesis, he later moved up to head the Edgar C. Britton Research Lab and then the Agricultural Research Lab. In the years before his retirement at Dow, Etcyl served as Vice President of Health and Environmental Sciences.



Etcyl is well known in the Midland area for his many contributions and his support of music. In fact, his personal passion for music influenced his choice to come to Dow in 1951. Other companies he considered, such as DuPont and Exxon, didn't have their own orchestras. Dow did. This was an irresistible combination for Etcyl—chemistry and music in the same organization. He even jokes that, "I really interviewed for the orchestral position and agreed to do some chemistry on the side." When the company had to cut its music program in 1958, Etcyl, along with several others, formed a board to start a community orchestra that became the Midland Symphony Orchestra. Etcyl played with the MSO until 1966 when he was asked to head the agricultural research lab. He and his wife Ruth have been strong supporters of area music and arts for many years.

Etcyl and Ruth reside in Midland. They enjoy world travel and visiting their three sons and seven grandchildren.

Robert Fleming and **Robert Huoni** have been members of ACS for 60 years. As of publication of this issue, no information was available for these two members.

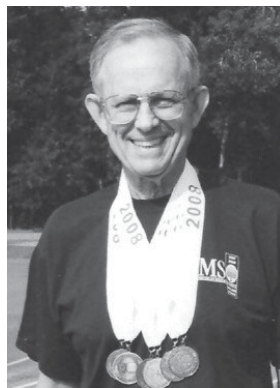
George Lewenz obtained a bachelor of science and master of science in chemistry from Case Western Reserve University after serving in World War II. He worked for The Dow Chemical Company in Midland until he retired in 1986. George died in early October. Please see a memorial article on George on pg. 23.

James K. Rieke has a 38-year history with The Dow Chemical Company, beginning in 1954. He held positions as associate scientist, polymer physicist, and later, head of the Molecular Modeling Group. His formal education began at the University of Illinois (Champaign), where he earned a bachelor of science in 1949. He pursued graduate studies at the University of Wisconsin (Madison), earning an M.S. in 1952 and a Ph.D. in 1954. After retiring from Dow in 1992, James became an airplane pilot with a num-

ber of ratings. He also spent time at the Michigan Molecular Institute writing hypertext teaching tools for polymer science. James has three daughters and five grandchildren. He lives in Midland.

Fifty-Year Members

Wendell Dilling has enjoyed a long research career that is still ongoing. He began at The Dow Chemical Company after completing a B.A. at Manchester College (North Manchester, Indiana) in 1958 and a Ph.D. at Purdue University (West Lafayette, Indiana) in 1962. Research at Dow included ten years in Exploratory Organic Photochemistry (1964-1974), eleven years in Environmental Photochemical Studies (1974-1985), and six years in High Temperature Lubricants Research (1986-1992). Retiring from Dow in 1992, Wendell shifted gears to take up academic research at Central Michigan University, where he now continues to pursue his research interests in organic photochemistry.



Wendell won several medals in the 2008 Senior Olympics.

Wendell is well known as an active participant in the Midland Section, having served in numerous capacities. Currently he is serving as a director and the Midland Section historian. Wendell also continues active participation in chemistry discussion groups, seminars, and review writing.

To keep fit, Wendell turns to bicycling and running. With respect to bicycling, he enjoys both touring and racing, and he works to promote bicycling advocacy as a volunteer for Tri-Cities Cyclists. As a runner, Wendell enjoys his own schedule and also getting involved in various competitions, including the Senior Olympics.

Wendell lives in Midland with his wife, Marcia. The couple has a daughter, Robin, and two granddaughters, Natasha and Shea.

Jacob (Jake) Eichhorn has a 43-year history with The Dow Chemical Company. He began at Dow in 1950 as a research chemical engineer in the Physical Research Laboratory. After serving as manager of the engineering division in the Physical Research Laboratory, he transferred to the Plastics Department in 1961, where he organized and managed the TS&D Films and Converted Products Group. Later, as Manager of Special Projects in the Packaging Department, he was involved in the construction and operation of polystyrene foam tray and container plants in the U.S. and Brazil. He then became the development manager for the Dow polycarbonate project, which he followed from the bench to the pilot plant stage. In 1980, he re-

joined Central Research as laboratory director for the Computation Laboratory. In 1986 he became development scientist in the Innovation Development Group. Jake holds 23 U.S. patents and has published numerous technical articles in the course of this work.

Jake's path to Dow wound by way of the University of Michigan, where he earned a B.S. in 1946, an M.S. in 1947, and a Ph.D. in 1950. Jake also is a graduate of the Program for Management Development from the Harvard Business School (1968).

Jake and his wife Mary enjoy traveling. They have spent several trips touring areas in Europe. Both Jake and Mary also actively pursue genealogical research, which they communicate through publications and presentations. They both enjoy golf. The couple has three children and six grandchildren. Their home is in Midland.

James Hahn is a 50-year member of ACS. As of publication of this issue, no information was available for this member.

Robert Moolenaar is a retired Dow chemist. He earned a B.A. from Hope College (Holland, Michigan) in 1953 and a Ph.D. from the University of Illinois (Urbana, Illinois) in 1957. In 1957 he joined The Dow Chemical Company as an associate scientist in the Inorganic New Products division, where he stayed until 1972. At this time, he moved into the Environmental Sciences Department, where he continued until his retirement in 1992.

Robert lives in Midland with his wife Laura and pursues interests in consulting, travel, and gardening.

Rudolf M. Salinger began his chemistry education in New York at the Cooper Union for the Advancement of Science and Art where he earned a B.Ch.E. in 1958. He then headed west to the University of Wisconsin (Madison, Wisconsin), where he completed a master's degree in 1960. Moving southeast, he worked on a Ph.D., pursuing problems in organic chemistry at the University of Cincinnati, graduating in 1963. He then went to California where he spent two years as a post-doctoral fellow at Stanford University.

But, in 1964, The Dow Chemical Company lured him to Michigan,



where he spent the next 37 years in many different positions: research, pilot plant, metallurgy, silicon, ceramics program, analytical chemistry, and corporation quality assurance. Rudolf retired in 2001.

Rudolf continues to do part-time consulting in quality management systems, volunteers for meals-on-wheels, does tax counseling for AARP, and serves as an officer of Temple Beth El in Midland. He and Sharon, his wife of 47 years, enjoy traveling and visiting their two children and six grandchildren. They make their home in Midland.

2008 Midland Section Honor Roll

By Ann Birch

Below and on the following page is a complete list of Midland Section members who have been affiliated with ACS for 50 years or more, along with the year that they joined. Our congratulations and thanks for your many years of dedication to ACS and the chemistry discipline!

70+ Years

1936	Dr. Ludo K. Frevel	1939	Dr. R.W. Von Korff
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60+ Years

1940	Dr. Giffin D. Jones	1947	Max L. Bottomley
1940	Dr. Lester J. Dankert	1947	Richard E. Anderson
1940	William D. Kuhlman	1947	Russell M. Tree Jr.
1942	Dr. James D. Head	1948	Dr. C. Kenneth Bjork Sr.
1942	Earle L. Kropscott	1948	Charles D. Burton
1942	Donald D. Mc Collister	1948	Ralph E. Friedrich
1942	Raymond H. Rigterink	1948	Dr. Alfred F. Steinhauer
1943	Dr. Charles F. Raley Jr	1948	Dr. David C. Young
1943	John L. Schick	1948	Dr. David B. Kellom
1943	Theodore B. Braun	1948	Dr. A. Lee Smith
1944	Warren B. Crummett	1948	Richard A. Mc Donald
1945	Arthur S. Teot	1948	Gilbert C. Frantz
1945	Paul H. Sheffield	1949	Robert J. Huoni
1945	Richard E. Cook	1949	Robert F. Fleming Jr.
1945	Franklin E. Ford	1949	Dr. Etcyl H. Blair
1946	Eldon L. Graham	1949	Dr. James K. Rieke

50+ Years

1950	Dr. Gerard C. Sinke	1954	Donald N. Ingebrigtsen
1950	Dr. Charles B. Roberts	1954	John C. Saam

1950	William L. Fagley	1954	Dr. Henry E. Hennis
1950	Dr. Richard H. Hall	1955	Dr. M. Peter Dreyfuss
1950	Dr. William R. Nummy	1955	Richard A. Stuckey
1950	Louis F. Wirth Jr.	1955	Dr. Douglas E. Leng
1951	Gust J. Kookootsedes	1955	Dr. Carlos M. Bowman
1951	Owen L. Stafford	1955	Arthur G. Smith
1951	Henry J. Dishburger	1955	Bart J. Bremmer
1951	Robert A. Delap	1956	Dr. John R. Moyer
1951	Gerald A. Clark	1956	Mou Shu Chao
1951	Howard L. Garrett	1956	Leroy Hampton
1951	D. Dick De Line	1956	Carl P. Zupic
1951	Dr. Robert L. Miller	1956	Dr. Robert M. Nowak
1952	Vernon A. Fauver	1957	Dr. H. David Russell
1952	Dr. Richard E. Skochdopole	1957	Thomas J. Delia
1952	Robert H. Lyons	1957	Dr. Linneaus C. Dorman
1952	Dr. Robert W. Belfit Jr.	1958	Dr. Thomas Gillespie
1952	Dr. Fred D. Hoerger	1958	John P. Lorand
1952	Donald L. Miller	1958	Dr. Dale J. Meier
1953	Dr. F.M. Scheidt	1958	Dr. Wendell W. Meyer
1953	George K. Greminger Jr.	1958	Richard B. Moreau
1953	Dr. Fred A. Blanchard	1958	Joseph L. Bevirt
1953	Dr. Frank L. Saunders	1958	Walter E.F. Rupprecht
1953	William C. Taylor	1959	Dr. Wendell L. Dilling
1953	Loren A. Haluska	1959	Dr. Rudolf M. Salinger
1954	Robert J. Cierzniewski	1959	Dr. Robert J. Moolenaar
1954	Theodore W. Selby	1959	Dr. Jacob Eichhorn
1954	Dr. Donald R. Petersen	1959	James R. Hahn



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Results in for the Section Election

By Kevin Lewis

On behalf of the Nominations and Elections Committee, I would like to thank all the candidates for agreeing to run this year for an elected position in the Midland Section of the American Chemical Society. To remain strong and vibrant, our society depends on volunteers. Your willingness to consider giving of your time and talent in the leadership of the Midland Section is a perfect example of this spirit. Board members for 2009 are shown below, with those elected this year in bold type and the year their term runs through in parentheses. The director, councilor, and alternate councilor positions carry a term of 3 years; all others carry a 1-year term.

Chair	Angelo Cassar	
Past Chair	Dorie Yontz	
Chair-Elect	John Blizzard	
Secretary	Michelle Cummings	
Treasurer	Janet Smith	
Chair, NEC	Kevin Wier	
Councilors	Kurt Brandstadt (10)	Bob Howell (11)
Alt. Council.	Gretchen Kohl (10)	Dale LeCaptain (11)

Directors

Jennifer Dingman (09)	Wendell Dilling (10)	Gina Malczewski (11)
Tina Leaym (09)	Steve Keinath (10)	Ann Norris (11)
Dale Meier (09)	Dave Stickles (10)	Dee Strand (11)

The 2009 term of office begins January 1, 2009. All elected officers can obtain additional information on the bylaws and on their role and responsibilities on the Midland Section web site at <http://membership.acs.org/m/midl/leaders.htm>. A list of 2008 officers and committee chairs is also on that page. For those who ran as candidates but were not elected (and for all members), please consider other volunteer opportunities within the Midland Section. Also, please consider running for elected office in the future!

I would also like to thank our numerous members for taking the time to vote. We received a total of 232 valid ballots from our 699 voting members (33.2% return). Your eagerness to participate in our election allowed for our proposed bylaw change to pass (213 for, 14 against). One of our incentives to encourage members to vote was a drawing for an iPod Nano; Robert Appell's outer envelope was drawn, and he is the lucky winner. Congratulations, Rob!

Nominations and Elections Committee: Kevin Lewis (Chair), Dorie Yontz, Dee Strand, Kurt Brandstadt, Brian Marinik, and Angelo Cassar

Fall Weather Can't Cool Down MMTG

By Dana Fuerst, MMTG Chair

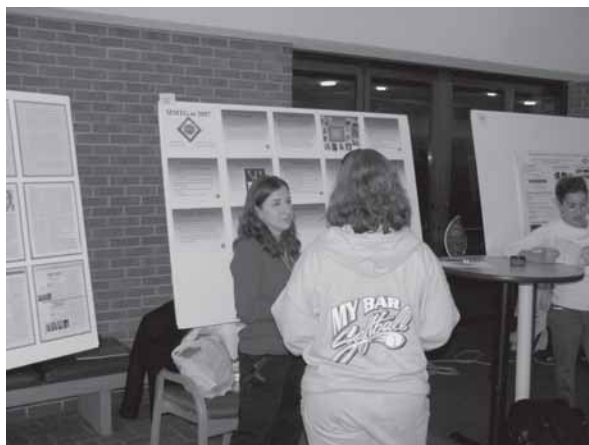
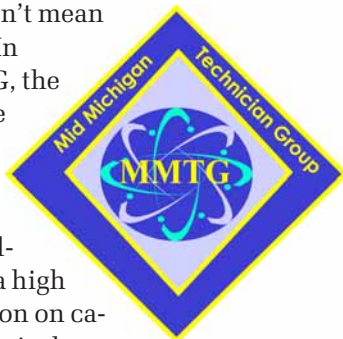
Just because the weather outside is cool doesn't mean that MMTG has cooled down on activities! In honor of National Chemistry Week, the MMTG, the Midland Section of the ACS, and Delta College co-sponsored Sci-Fest 2008 at Delta College on Saturday, October 18.

On the chilly morning of Friday, October 24, Dave Stickles and I worked at the Delta College Career Pathways, where thousands of area high school students could find out more information on careers that interest them. The most difficult part is that so many students don't think that chemistry is fun! So it is up to the people representing the chemical technology career to grab uninterested students' attention.

How? Many high school girls are interested in their hair and make-up...which is chemistry! Many high school boys are interested in using their hands to work...which is a common thread for chemical technicians! We even had one very skeptical young man who insisted that he didn't use chemistry at *all* over the summer. After insisting that he didn't swim or go out in the sun, I asked if he washed his hair...of course you know the answer to that one!

Several members attended the Fall Scientific Meeting on the afternoon of Friday, October 24, where we presented our "MMTG in 2007" poster. The

poster was an excellent way to highlight what MMTG did in 2007 that helped us win the "Best Local Section/TAG Interaction" award from TECH. Two MMTG members also received awards at the meeting. Elected Delegate Sue Perz received the *Outstanding Chemical Technician* award from the Midland Section and long-time active member Connie Murphy re-



MMTG 2008 Chair, Dana Fuerst, presenting the "MMTG in 2007" poster at the Fall Scientific Meeting

ceived the *Outstanding Service to the ACS* award. Both recipients are very deserving of their awards and MMTG is proud to have them as active members! See pp. 6–7 for more details on these two awardees.

The lunchtime Career Development talk that was originally scheduled for October has been postponed until the end of January 2009 due to a conflict in scheduling. This event will still be held at the Delta College Main Campus and will be open to anyone interested in attending. This event will be funded by the Equipping the 2015 Chemical Technology Workforce mini-grant that MMTG received from the national ACS.

MMTG is currently in the process of collecting donations for our annual Adopt-A-Family event. Each year, members donate money so we can participate in this program organized by the Salvation Army. The need to adopt families will be greater this year than in previous years so we are encouraging others to participate in any way possible. Families from this program range in size from an individual and up. So, for as little as \$90, you can help someone who is in dire need. Check with your local Salvation Army for details or feel free to contact me at dfuerst@dow.com and I will help you make contact.

MMTG is in the process of holding our annual elections and the results will be in soon. We are also finalizing the plans for our annual Member Appreciation/Meet the 2009 Board Year-End Luncheon. The date of the luncheon will be Tuesday, December 9, so mark your calendar now. Delicious food will be catered at the Dow Corning Auburn Site Conference Room H for the event. You can bet that it will involve not only some tasty food but a few good laughs! At this event, we will also be awarding our annual *Volunteer of the Year* award to a member who has gone above and beyond for MMTG in 2008. Be sure to check out our next update article to see who the big winners are and have a safe and happy holiday season.

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Midland Section Member Zank Receives National Award

By Mike Owen

It is our great pleasure to acknowledge that a member of the Midland Section, Dr. Gregg A. Zank of Dow Corning Corporation, is the recipient of the 2009 Earle B. Barnes Award for Leadership in Chemical Research Management. This award is administered by the American Chemical Society and was established by The Dow Chemical Company in 1982 to recognize individuals who have demonstrated outstanding leadership and creativity in the discipline of chemical technology management. Awardees must have established a record of successful research projects brought to fruition by strongly motivated researchers. His award citation reads "Dr. Zank is a highly regarded and respected Chief Technology Officer, both within the business and academic communities. He has a proven track record of scientific leadership, invention, people development, and business impact." Congratulations to Gregg on this fine accomplishment. He joins a very distinguished list of awardees; this list can be found on the ACS website.



Gregg joined Dow Corning in 1985 with a Ph.D. in inorganic chemistry from the University of Illinois at Urbana. He quickly rose through the science and technology ranks and is currently a Vice President, Chief Technology Officer, and Executive Director of Science and Technology at Dow Corning. Among his many technical achievements are forty-five patents and a similar number of publications. The innovations outlined in these documents include advanced monolithic and composite ceramics, electrodes for rechargeable batteries, and high-temperature thermosetting plastics and resins. He now leads the thousand-plus global science and technology professionals who are engaged at Dow Corning in the New Business and Technology Incubator, and in the product development, process engineering, and technical service arenas. Gregg also heads an Innovation Priority that includes not only science and technology innovation but new business and financial models as well.

Gregg has an impressive portfolio of external activities and accomplishment. Just limiting ourselves to some of his local Michigan activities, we

draw attention to the board of directors for institutions as diverse as Michigan Molecular Institute, Detroit Area Pre-College Engineering Program, Central Michigan University Research Corporation, and Lake Huron Boy Scouts of America. He also serves on Michigan's Climate Action Council and is a State of Michigan Industrial Small Technology Advisor assisting in developing high technology with the Michigan Economic Development Corporation.

Gregg is a strong supporter of ACS and has been a member for almost thirty years. Locally, we are particularly fortunate that he has ensured continued financial support of our Section by Dow Corning. In line with his strong commitment to scientific education of young people, he particularly favors these funds being directed to outreach and educational activities of the section such as our Donald R. Weyenberg Memorial Student Travel Grants and Project SEED, the ACS summer research internship for economically disadvantaged high school students. His latest much-appreciated initiative was to sponsor the award for the best undergraduate poster at our recent Fall Scientific Meeting.

Deadlines for 2009 Midland Chemist

By Ann Birch

Below are the deadlines for the 2009 issues of *The Midland Chemist*. The editorial calendar will be available on the web site in late December.

January 12

March 9

May 11

July 13

September 14

November 9

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SciFest 2008 A Hit with Young Scientists

By Joan Sabourin

On Saturday, October 18, 2008, Delta College, the Midland Section of the American Chemical Society, and the MidMichigan Technician Group celebrated National Chemistry Week through SciFest 2008 with the theme of “Having a Ball with Chemistry.” The day’s special guest was Delta College Board member Dr. Thomas Lane, who is the 2008 President-elect of the 160,000 national and international member American Chemical Society.

The theme was carried out in a variety of ways with hands-on activities provided by exhibitors from:



Special guest Dr. Thomas Lane with Gretchen Kohl.

- Midland Section of the American Chemical Society’s National Chemistry Week Committee – Beads, Balls, and Chemical Bonds
- MidMichigan Technician Group – The Color of Chemistry
- SVSU Chemistry Club – Molecular Modeling Polymers for Sports Equipment
- Professional Glass Blower – Blowing Glass Balls
- St. Mary’s of Michigan Field Neurosciences Institute – Think First: Use Your Mind to Protect Your Body
- Midland RC Modelers
- Society of Plastics Engineers – Use and Processing of Plastics
- American Institute of Chemical Engineers – Having a Ball with Bubbles
- Midland Conservation District’s Earth and Water Tunnels
- Delta College Faculty and Staff – Activities from the Science, Biology, Health and Wellness divisions; Fitness Center; and Food Services, Facilities Management, A-V, and Business Services. A Delta soccer team member provided activities and a presentation ran continuously about how chemistry has had an affect on a variety of sports.

Newspaper articles and SciFest 2008 announcements appeared twice in the Saginaw News, the Saginaw Township Times, and the October 2008 paper and web issue of the Saginaw Valley Family Magazine. There were 26,500

flyers that were delivered to area schools in Bay, Midland, and Saginaw counties. There were about 80 volunteers and about 800 to 1000 participants.

An email from one participant sums up what many said verbally:

“Thank you and all the volunteers who put on the Sci-fest. Our second grader is planning to be a scientist and was thrilled to meet so many scientists and engineers. We are trying to support her curiosity and plans in the hopes she won’t get turned off by the fourth grade and ditch her plans for college. We elders were impressed with all the women involved; she did not even note it. We heard your interview on 90.1 FM. Thanks again for all the hard work that obviously went into such a large project. Even our preschooler is still talking about all the things we saw and got to try out. We all had fun and learned new things.”

SciFest 2008 Committee: Joan Sabourin (Delta College), Dave Stickles (MMTG), Gretchen Kohl (NCW), and Angelo Cassar (ACS)



There were lots of exciting things to do and see at the 2008 Sci-Fest at Delta College.

A Conversation with Dr. Slime

By Ann Birch

Michael Garlick is a chemist/laboratory technician at Delta College who has been wowing young audiences with his science shows for over 17 years. He is a frequent participant in the annual SciFest event sponsored by the Midland Section, Delta College, and the Mid-Michigan Technician Group and has also been a contributor to other ACS events through the years.

Q: How long have you done Dr. Slime shows?

A: I started it in 1990 and as long as schools call me, I'll keep hard at it.

Q: Where do you live and work?

A: I live in Saginaw and work in the Bay City area at Delta College for the Chemistry Dept.

Q: Are all of your Dr. Slime science shows free?

A: I wish they all were. Until I can hook-up with a major sponsor, I have to try to get grants, single show sponsors, or charge a small fee to reflect my actual costs.

Q: Why do you do the crazy things you do as Dr. Slime?

A: Dr. Slime isn't crazy, he's just mad about the fun to be found in science. As a kid I remember this guy who came to my school and made science look so exciting. I want to do that—I want to excite, educate,



Dr. Slime (aka Mike Garlick) works with young scientists during Sci-Fest.

and entertain. I want to make a difference to a few kids out there, and maybe start the cycle all over again.

Q: What is the farthest you have traveled to present a show as Dr. Slime.

A: 2100+ miles. I was flown to the Pacific Science Center (PSC) in Seattle, Washington, to do 10 shows in one week for them. If you ever get out to Seattle, check out the PSC, it's cool!

Q: Do you have a day job?

A: Yes, Dr. Slime is a professional hobby of mine. I do about 30 shows each year. The remainder of my time is spent as a chemist/laboratory technician at Delta College. I also teach college chemistry as an adjunct professor for SVSU.

Q: Are you really a doctor?

A: Nope, it was an honorary degree conferred upon me by the kids. I actually am a chemist/secondary educator, who wanted to work in the lab, teach kids, and do fun stuff in science.

Q: Why is your hair green?

A: Two reasons: first, because it shatters the stereotypical view one has of a chemist and second, because the kids told me to and they love it. In fact the kids named me Dr.Slime and, like slime, the name stuck.

Q: Where can the reader find out more information about Dr. Slime?

A: Check out my website <http://www.doctorslime.com>.

Q: What does Dr. Slime do for fun?

A: I have a ton of hobbies. I raise carnivorous plants, I take care of my koi and water garden, and I like to hike and geocache.

ACS Careers Industry Forum

From National ACS

Join us for the next ACS Careers Industry Forum:

Date and Time: Thursday, January 9th, 2009, 2–3 p.m. ET

Speaker: Dr. Thomas H. Lane, President-Elect of ACS, Director, Global Science and Technology Outreach and Senior Research Scientist, Dow Corning Corporation.

Topic: “Mastering the Necessary Skills for the Present and for the Future”

Take this personal opportunity to listen to the newly elected president of ACS discussing skills you will need now and in the future to launch your career to new heights. Go to the site below to register: <http://surveys.acs.org/se.ashx?s=04BD76CC5AD7268A>

In Memoriam

Adapted with permission from the Midland Daily News

George F. Lewenz

George F. Lewenz, 88, died in October 2008. He was born in Berlin, Germany, in 1920, the son of Paul and Marie Lewenz. In 1938, he left to attend the University of Zurich, but in 1942, along with his brother Stefan Lewenz, he emigrated to the United States. Shortly thereafter, he voluntarily entered the U.S. Army, where he trained in military intelligence and interrogation of POWs. He was awarded a military citation and the distinguished Bronz Star for dedicated service to our country. After the war, he earned his bachelor of science and master of science degrees in chemistry from Case Western Reserve University. He worked for The Dow Chemical Company in Midland until he retired in 1986. He relocated with his wife to Walnut Creek, California, in 1999. George joined ACS in 1949. He enjoyed classical music, travel, and community theater. He is survived by Bess, his best friend and beloved wife of 58 years. He leaves four children and their families.



Special Note: George was interviewed as part of the Veteran's History Project, American Folklife Center, Library of Congress. The link to his information is:

<http://lcweb2.loc.gov/diglib/vhp/bib/.loc.natlib.afc2001001.08228>.

Scholars Program Accepting Applications for 2009–2010

From National ACS

Now in its 14th year, the Scholars Program has supported over 1990 students during their undergraduate studies in the chemical sciences. For more information and to access the on-line application form, go to www.acs.org/scholars, call toll-free 800-227-5558, ext. 6250; e-mail scholars@acs.org; or write to the American Chemical Society Scholars Program, 1155 16th Street, NW, Washington, DC 20036. The deadline is March 1, 2009.

2009 Midland Section Board Meetings

By Angelo Cassar

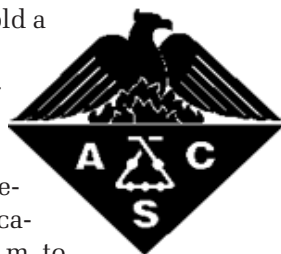
Below are the dates for the 2009 Midland Section meetings for the Board of Directors, all of them on the third Monday of each month, except July when there is no meeting. All meetings are from 7:00 p.m. to 9:00 p.m. at the Midland Center for the Arts in the designated room.

January 19	Board Room
February 16	Board Room
March 16	Board Room
April 20	Board Room
May 18	Garden Room
June 15	Board Room
August 17	Board Room
September 21	Board Room
October 19	Board Room
November 16	Board Room
December 21	Board Room

Meet Your Midland Section Leadership – Get Involved!

By Ann Birch

On Monday, January 19, 2009, we're going to hold a get-together for Midland Section members and Midland Section area professionals interested in becoming members. This will be a great way to meet the Midland Section leadership and learn more about what the Section is doing and how you can become involved in a wide range of technical and educational activities. The event will be held from 5:00 p.m. to



6:30 p.m. just prior to the regular board meeting at the Midland Center for the Arts in the pendulum area of the Hall of Ideas. Join us that evening for some great refreshments and good conversation. There will be ACS mugs for the first 20 participants. Let's see what we can do together!

In Past Issues of *The Midland Chemist*

By Wendell L. Dilling, *Midland Section Historian*

- **40 Years Ago This Month**—In the editorial, *The ACS Is Interested in Education*, by J. E. Dunbar: “The elementary school level of education, as important as it is, has been completely ignored by the education-oriented ACS. And what ACS member does not believe that our present day elementary education system does not leave something to be desired? The time seems ripe, therefore, when our Ph.D. daddies should lay aside their chemical journals long enough to see how Johnnie is taught long division and ‘science’.”
- **30 Years Ago This Month**—In *Speier Named 1978 Industrial Research/Development Magazine Scientist of the Year*: “John Speier, Corporate Research, has been named the 1978 Industrial Research/Development Magazine Scientist of the year in an announcement made by Robert R. Jones, editor of the magazine. Dr. Speier was honored in a series of events in Chicago on September 21. The coveted Scientist of the Year plaque was presented at a banquet attended by the inventors, developers, and manufacturers of the 100 most significant new technical products of the year – the IR-100 – in the Great Hall of the Chicago Museum of Science and Industry.”
- **20 Years Ago This Month**—In *Guest Editorial* by Joseph G. Temple, Jr.: “In 1987 Merrell Dow passed a milestone – the first year in which its global sales exceeded \$1 billion. We expect continued growth and our projection for 1988 is to reach sales of \$1.3 billion. Since the acquisition of Richardson Merrell in March of 1981, we have come a long, long way. Merrell Dow is now among the fastest growing pharmaceutical companies in the world.”
- **10 Years Ago This Month**—In *Report from the Fall Scientific Meeting* by George Eastland, general chair: “The 54th Fall Scientific Meeting was held on Saturday, 31 October, 1998, at Curtiss Hall, Saginaw Valley State University. Registration began at 8:00 a.m. At 9:00 a.m., directly before the keynote address, three awards were presented. The Outstanding Technician Award went to Dave Stickle, Dow Corning, the Outstanding Service to the American Chemical Society Award went to Vicky Cobb, Dow Corning, and the Outstanding Achievement and Promotion of the Chemical Sciences Award went to Patrick Smith, Dow. Jack Ochs, the director for New Product Development for the American Chemical Society’s Publication division gave the keynote talk, entitled “Reinventing Journals for the Web.”

Important Dates on the ACS Midland Section Calendar

Go to the website calendar for more details on the events below: <http://membership.acs.org/m/midl/calendar.htm>

- Jan. 12 Deadline for February issue of *The Midland Chemist*
- Jan. 19 Midland Section Member Event, MCFTA, Hall of Ideas, 5:00-6:30 p.m.
- Jan. 19 Midland Section board meeting, MCFTA, Board Room, 7:00 p.m.

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