

THE MIDLAND CHEMIST

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Contents

FOUR-LETTER-WORDS! YOUR HELP is Needed.....	1
Call for 2014 ACS Fellows	2
Diana Deese Wins 2014 National Chemical Technician Award	2
In Memoriam—Eldon Graham	3
Midland Section Awards—Call for Nominations	4
Do You Want to Work with Teachers?	11
Outreach Overcomes Winter Weather Obstacles.....	11
Clarification of 2013 ACS President-Elect Election.....	11
In Past Issues of <i>The Midland Chemist</i>	12
Upcoming Dates, Events, and Other Updates.....	13

FOUR-LETTER-WORDS! YOUR HELP is Needed

Midland Section Communications Group

Please **READ** on! ACS *still* needs **YOUR HELP** and your talent...

Love to work online? Do website design? We are in urgent **NEED** of a website coordinator. You would gradually succeed our current volunteer, Greg Cushing, who is still active but has relocated out of the section. We are considering a site rebuild to accommodate some new functions, including a **BLOG**. Get in on the ground floor where you can really take a **LEAD** role!

We also must give our current newsletter editors and publicity volunteers a break. If you like to write and/or deal with the public and media, have a go at publicity/PR. If you're a social media guru, we could use a volunteer to handle and develop those aspects of our communications. Amy and Steve will transition you into these roles—we need all takers because more people mean less individual work.

These are great opportunities for community service or professional development goals—not to mention the camaraderie, networking potential and skills development! Training is available. Time commitment will vary with role, number of volunteers, and individual preferences. ACS membership is not required.

Volunteer—or call any of those listed below for more info—**DON'T WAIT**. Your award-winning section cannot sustain its activities without YOU.

Amy Tesolin-Gee: amtesolin-gee@dow.com; 989-636-1903

Steve Keinath: keinath@mml.org; 989-832-5555 x 588

Greg Cushing: greg.cushing@hotmail.com

Gina Malczewski: reginamalczewski@gmail.com; 989-631-4038

Call for 2014 ACS Fellows

Matt Grandbois, Chair-Elect

Since 2008, the American Chemical Society honors its members for their outstanding achievements and contributions to science, their profession, and the Society by bestowing the honor of ACS Fellow to a select group of individuals worthy of this title ([2014 ACS Fellow Program Guidelines](#)). This honor is different from other "Fellow" designations due to the specific criteria that ACS Fellows must have made exceptional contributions to their scientific field/profession *and* have made extraordinary volunteer services to the ACS community throughout their careers.

The nomination process for selection to the 2014 class of ACS Fellows is currently open and the Midland ACS Section is allowed to nominate two individuals from our section for this honor. If you would like to nominate one of your peers or colleagues for this honor that are currently living ACS members in good standing with the Society, please contact 2014 Midland ACS Chair, Michelle Cummings (michelle.cummings@dowcorning.com), with the following information:

- Name
- Educational History
- Professional History (200 words or less for each position)
- Professional Organization Affiliations
- Volunteer Service to the ACS Community (Up to 6 examples; 200 words or less for each)
- Contributions to the Science/Profession (Up to 6 examples; 200 words or less for each)
- Honors and Awards (Up to 6 examples)
- Contact Information for letters of recommendation (Up to 3 contacts)

Diana Deese Wins 2014 National Chemical Technician Award

Janet Smith, Director

Diana Deese is the 2014 recipient of the National Chemical Technician Award (NCTA), and will receive the award at a dinner in her honor at the 247th National ACS Meeting in Dallas. The award was established in 1989 to recognize the outstanding career achievements of exceptional technicians and encompasses technical achievement, as well as community service and outreach. The NCTA dinner will be held at the Sheraton on Sunday, March 16 at 6:00 PM (tickets available through ACS meeting registration).

This is the fifth time in the 25-year history of the NCTA that the recipient is from the Midland Section. Congratulations, Diana!

2014 Awards Banquet Set for April 22 at Great Hall Convention Center

Lauren Huffman, Awards Committee Chair

Mark your calendars! The ACS Awards Banquet will be held Tuesday, April 22, 2014 at 6:00 PM at the Great Hall Banquet & Convention Center. Tickets for dinner will be \$15. Please come out and help to celebrate our local high school, university, and community awardees. If you are interested in attending, please email awards@acs.org or call 989-636-7371.

In Memoriam—Eldon Graham

Submitted by Wendell L. Dilling, Director and Historian



Photo courtesy of the Midland Daily News

Eldon Graham, 87, of Midland, died Wednesday, February 12, 2013, at the MidMichigan Medical Center. He was born September 6, 1926 in Sullivan County, Indiana.

Until just recently, Eldon was teaching classes and doing his own yard work. He was characterized by his Midwestern work ethic and professional and community volunteerism.

He received his initial engineering education at Purdue University. His professional career covered 68 years of employment, 24 as an engineer and research administrator with The Dow Chemical Co., followed by 44 years in teaching and administration at Saginaw Valley State University (SVSU), where he was the founder of the engineering and technology programs. He also served, for a number of years, as the assistant dean for the College of Science, Engineering and Technology. He was granted professor emeritus status in 2006, but continued teaching, counseling students, and serving as the director of the Engineering Technology Management Program.

Eldon was a 69-year ACS member, 1946-2014. He served the Midland ACS Section over many years holding the positions of Treasurer, 1952; Secretary, 1953; Chairman-Elect, 1954; Chairman, 1955; Director, 1956-1959; Councilor, 1962-1970, 1977-1979; and Alternate Councilor, 1980-1982. He held the following committee chairmanships: Awards, Technical Society Interface, Education, Publicity, Science Quiz, and Science Fair. He served on the planning committee for the first Central Regional ACS Meeting hosted by the Midland Section in 1982.

He served on the National ACS Committee on Professional Relations, 1963-1969, and as Secretary of that committee, 1967-1969.

Eldon received the Midland Section Award for Outstanding Service to the ACS in 1994 and the Midland Section Award for Science Education Volunteer of the Year for 2005.

At SVSU, he received the Ruben Daniels Community Service Award, and the College Service Award. He was the author of the book, "The History of the Academic Programs of Saginaw Valley State University." He was named as an honorary member of the SVSU Alumni Association in 2008. He served on the SVSU Foundation Board of Directors, the Board of Fellows, and was a member of the Pioneer Club. He received the Engineering Founders Award in 2005 and received an honorary doctorate degree from SVSU in 2009.

Eldon was proud to be part of the Midland community and was active in many professional and community organizations, such as the First United Methodist Church, Midland Kiwassee Kiwanis Club, Chippewa Nature Center, Boy Scouts of America, the Mid-Michigan Section of the American Institute of Chemical Engineers, National American Institute of Chemical Engineers, the American Society for Engineering Education, and American Association for the Advancement of Science.

Midland Section Awards—Call for Nominations

Lauren Huffman, Awards Committee Chair

It is that time of year again when we have the opportunity to recognize outstanding educators, volunteers and colleagues. I am asking that you take the time to nominate that outstanding person to be recognized at the American Chemical Society—Midland Section Awards Banquet to be held on Tuesday, April 22 at the Great Hall Banquet and Convention Center in Midland. This promises to be an exciting event. The awards banquet is a great way to connect with others in the industry, those who have gone before us, those who teach the next generation, and those who will be following in our footsteps.

The process of nominating can be fun and easy. Consider getting your colleagues together for lunch and putting together a packet. If you are in a managerial role and are worried about favoritism, consider nominating 2-3 qualified persons (you will remain anonymous). If you feel you deserve an award but everyone is just too busy to notice, consider leaving suggestions or have an outright discussion with your manager. If you are a parent: Does your child have a great science teacher? If so, consider nominating him/her. From personal experience, if you know the deserving person, it only takes 30 minutes to put together an award winning letter and an additional 15 minutes soliciting supporting letters and following up on them. Think of what it will mean to that person and how good you will feel about your good deed.

When you realize how exciting it is to nominate someone at the local level and you want to do more, I invite you to peruse the veritable cornucopia of awards the American Chemical Society offers at the national level. I have included them with the call for nominations (see page 8), along with a web address where you can find out more information.

Nomination packets for all awards (except outstanding high school and collegiate awards) must, at a minimum, consist of a current resume or equivalent, and **one** supporting letter in addition to your letter of nomination all stating why the nominee is deserving of the award with specific examples of professional involvement, growth, contributions to industry, and, outside affiliations. It is highly recommended that the nomination include a publications and patent list where applicable and additional letters of support which can come from students, parents, community members, and/or administrators. A nomination letter example can be requested from the awards chair (Lauren) via email. Nominations not meeting the minimum requirements, and submissions received after the March 29 deadline, will not be considered.

For those of you sequestered in labs who feel you might not be able to attend unless you nominate someone, I say save the date and come on out for a night of food, fun, and fraternization! Watch for more detailed information on the speaker, time and price right here in *The Midland Chemist!*

Contact me, Lauren Huffman (lmhuffman@dow.com), if you have any questions.

CALL FOR NOMINATIONS—2014 SCIENCE TEACHING, VOLUNTEER, EDUCATION, AND CHEMICAL SCIENCES AWARDS

Each year, the Midland Section of the American Chemical Society presents awards to recognize outstanding achievement in the chemical sciences. Nominations for the 2014 awards are invited for the following areas:

- Outstanding Elementary Level Science Teaching
- Outstanding Middle Level Science Teaching
- Outstanding High School Chemistry Teaching
- Outstanding College Chemistry Teaching

- Science Education Volunteer of the Year
- Outstanding Achievement and Promotion of the Chemical Sciences
- Outstanding Service to the American Chemical Society
- Outstanding Chemical Technician
- Outstanding Achievement in the Promotion of Diversity in Chemistry, Related Sciences and Engineering
- Outstanding High School/College Chemistry Students

Outstanding Science/Chemistry Teaching Awards

Candidates for the teaching awards must be educators at schools in the five-county geographical area of the Midland Section: Bay, Gratiot, Isabella, Midland and Saginaw Counties. One candidate will be recognized for their teaching contributions in each of the following categories: Elementary, Middle Level, High School, and College.

Science Education Volunteer of the Year

The Science Education Volunteer of the Year award is presented to an individual who makes a substantial contribution to science learning in the Midland Section through voluntary efforts.

Outstanding Achievement and Promotion of the Chemical Sciences

Each year the Midland Section honors an individual residing within the Section's geographical area who has demonstrated outstanding achievement and promotion of the chemical sciences. This award recognizes dedication and service to the chemical profession, but the recipient need not be an ACS member.

Outstanding Service to the American Chemical Society

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

Outstanding Achievement in the Promotion of Diversity in Chemistry, Related Sciences & Engineering

This award is presented biannually to a person or group residing in Midland, Bay, Saginaw, Isabella or Gratiot County for outstanding achievement in enhancing the participation of underrepresented groups in the study of chemistry, related sciences and engineering. Members of the Midland Section Minority Affairs Committee are ineligible to receive this award.

Outstanding Chemical Technician

The Section presents an annual Outstanding Chemical Technician Award to an individual who has demonstrated an extremely high degree of professionalism as a chemical technician. Nominees must have worked for five years as a chemical technician or related field and whose primary job includes conducting experimentation or correlating information to help solve chemical problems or discover new chemical knowledge. Nominee must have successfully completed a two-year post-high school level chemistry curriculum leading to an associate degree, the equivalent course in a baccalaureate program, or equivalent experience. Chemical technicians do not need to be an ACS member to be eligible for this award. Nominations should include outside affiliations. *Request the National ACS nomination form from the awards chair to nominate in this category.*

Recipients of all awards will be selected by the Awards Committee with the exception of the Outstanding Achievement and Promotion of the Chemical Sciences award, which is submitted for approval by the Executive Committee. Nominators should write a letter indicating the award and describing the attributes of the candidate. Nomination packets for all awards (except outstanding high school and collegiate awards) must, at a minimum, consist of a current resume or equivalent, and at least one additional supporting letter included with your nomination all stating why the nominee is deserving of the award. Specific examples should be given in areas such as professional involvement/growth, contributions to industry, and outside affiliations. It is highly recommended that the nomination include a publications and patent list where applicable. Additional letters of support can come from students, parents, community members, and/or administrators. Nominations not meeting the minimum requirements, and submissions received after the March 29 deadline, will not be considered. The deadline for nominations is March 29, 2014. Mail or Fax submissions are acceptable; *electronic (e-mail) submissions are preferred*. All submissions must be accompanied by the name, position, address and phone number of the nominator.

Outstanding Chemistry Students

The Awards Committee also recognizes outstanding chemistry students at the high school and collegiate levels. Those students should be selected by the respective departments and their names forwarded to the Awards Committee using the form attached to this call for nominations (see page 10). One selection per school and no supporting letters needed.

Award recipients, as well as Chemistry Olympiad winners and Fifty/Sixty Year ACS Members, will be honored at the 2014 ACS Recognition Dinner featuring an ACS speaker on April 22.

The Awards Committee greatly appreciates the efforts involved in nominating someone and wishes to thank you for helping to recognize deserving educators in our section. Please pass this information along to anyone involved in our local science programs!

For example nominations or more detail on any award, please contact Lauren Huffman.

Electronic submissions are acceptable and preferred, or via U.S. mail to:

Lauren M. Huffman
ACS Awards Committee Chair, Midland Section
The Dow Chemical Company
Michigan Operations
Building 1710, Lab 40
Midland, MI 48642
Phone: (989) 636-7371; Fax: (989) 638-6619
e-mail: lmhuffman@dow.com or e-mail: awards@midlandacs.org

PREVIOUS RECIPIENTS OF THE AWARDS ARE AS FOLLOWS:

Elementary Level Science Education

1992 Karen Ziemelis
1993 Lela Wade
1994 Constance A. Dullock
1995 Joan Klopccic
1996 Mark Hackbarth
1997 Denise Koppberger, Cheryl Ruthig

Middle Level Science Education

1992 Derrell Steffen
1993 Laurie Hepinstall
1994 JoAnn Kraut
1995 No Recipient
1996 Barbara J. Bibbee
1997 Gary J. Johnson

High School Chemistry Teaching

1989 Robert Wallace
1990 Gary Ronk
1991 No Recipient
1992 John Clark, Edna Konwinski
1993 Mary Irons
1994 Jo Ann Pelkki

1998	Barbara McGivern	1998	No Recipient	1995	No Recipient
1999	John Clark	1999	No Recipient	1996	Sandra Schafer
2000	Sue Burtch, Robin Harshman-Rogers, Vicki Richard, Clare Jorgensen	2000	No Recipient	1997	Mary Fredell
2001	Cathy Egerer, Amy Hindbaugh-Marr	2001	No Recipient	1998	Dale Ressler
2002	Maureen Becker	2002	Joel Mikusko	1999	Robert Enszer
2003	Leon Katzinger	2003	No Recipient	2000	Steven Kelly
2004	Joan Roels	2004	Christine Brillhart	2001	William Stokes
2005	Curt Moses	2005	No Recipient	2002	Robert Hansen
2006	Robin Allen	2006	Matthew Miller	2003	No Recipient
2007	Diane Huckins	2007	John Hoving	2004	Doug Grezeszak
2008	Rachel Pappas	2008	Mark Koschmann	2005	Pamela Thompson
2009	No Recipient	2009	Carla Piazza	2006	Daniel Sealy
2010	No Recipient	2010	Melinda Coyle	2007	No Recipient
2011	Beth Quimby	2011	Jennifer Lenon	2008	No Recipient
2012	No Recipient	2012	Jayne Swanson	2009	Nancy Vossen
2013	No recipient	2013	John Barnes	2010	Sandra Schafer
				2011	David Allan
				2012	David Bruessow
				2013	Tom Short and Sarah Beery

College Chemistry Teaching

1989	Joan Sabourin	2001	Sandra Smith
1990	Bob Howell	2002	Margaret Hill
1991	Robert Kohrman	2003	Dale Meier
1992	Scott Hill	2004	Katherine Blystone
1993	Ajit Sharma	2005	Ronald Sharp
1994	Laura Vosejka	2006	Arthur G. Smith
1995	George Eastland	2007	Cynthia N. Peck
1996	Martin Spartz	2008	No Recipient
1997	Philip Squattrito	2009	No Recipient
1998	Thomas Delia	2010	Anton Jenson
1999	Steven Keinath	2011	No Recipient
2000	James Hutchison	2012	David S. Karpovich

Science Education Volunteer

1992	Gregg Young	1999	William Albe	2007	Teri Bickmore
1993	Peter Bonk	2000	Karol Childs		Cal Goeders
1994	Peter Moehs	2001	Donald Petersen	2008	Tim Drier
1995	Gretchen Kohl	2002	Joan McMahon	2009	Dave Stickle
1996	John Blizzard	2003	John Blizzard	2010	Lisa Thackery
	Richard Van Effen	2004	Jan Zanyk	2011	Charles & Barbara Roth
1997	Marvin Tegen	2005	Eldon Graham	2012	Estelle Lebeau
1998	Carlton Beyer	2006	Tom Chamberlin	2013	No recipient

Outstanding Achievement in the Promotion of Diversity in Chemistry, Related Sciences, and Engineering *(awarded every other year)*

2002	George Gant, Richard Stringfield	2008	Sandra Parker
2004	Smallwood Holoman, Jr.	2010	Theophilus Leapheart
2006	Joan Sabourin	2012	Linneaus Dorman

Outstanding Chemical Technician

1997	Connie J. Murphy	2004	Sherry Allen	2011	Amy Tesolin-Gee
1998	David Stickle	2005	Bill Rievert	2012	Amber Wallace
1999	Ronald L. Good	2006	Margo McIvor	2013	Chadwick Roland

2000	Kurt A. Bell	2007	Debbie Bailey
2001	Gordon R. Roof	2008	Sue Perz
2002	Cynthia J. Gould	2009	Diana Deese
2003	Robert Krystosek	2010	No Recipient-Spring Award

Outstanding Achievement and Promotion of the Chemical Sciences

1976	Dr. Turner Alfrey, Jr.	1990	Dr. Joseph E. Dunbar	2004	Herbert D. (Ted) Doan
1977	Dr. Etyl H. Blair	1991	Dr. Thomas H. Lane	2005	Dr. Michael J. Owen
1978	Dr. David C. Young	1992	Dr. Donald A. Tomalia	2006	Dr. Robert E. Kehrman
1979	Dr. Vernon A. Stenger	1993	Dr. Dale J. Meier	2007	Dr. Petar R. Dvornic
1980	Dr. Daniel R. Stull	1994	Dr. Philip T. Delassus	2008	Dr. Jack Kruper
1981	Dr. Bob A. Howell	1995	Dr. Duane B. Priddy	2009	No Recipient
1982	Dr. Wendell L. Dilling	1996	Dr. Hans G. Elias	2010	No Recipient-Spring Awards
1983	Dr. Donald R. Weyenberg	1997	Dr. Ludo K. Frevel	2011	Dr. James Falender
1984	Dr. Edwin P. Plueddemann	1998	Dr. Patrick B. Smith	2012	No Recipient
1985	Dr. Raymond P. Boyer	1999	Dr. David E. Henton	2013	No Recipient
1986	Stanley P. Klesney	2000	Dr. Steven J. Martin		
1987	Dr. Warren B. Crummett	2001	Dr. Edwin C. Steiner		
1988	Dr. A. Lee Smith	2002	Dr. Thomas J. Delia		
1989	Dr. Do Ik Lee	2003	Dr. Robert M. Nowak		

Outstanding Service to the American Chemical Society

1989	Dr. David C. Young	2000	Dr. Peter & Dr. Patricia Dreyfuss	2011	No Recipient
1990	Dr. Linneaus C. Dorman	2001	Dr. George W. Eastland, Jr.		
1991	Dr. Donald R. Petersen	2002	Joan Sabourin		
1992	Dr. Wendell L. Dilling	2003	John Blizzard		
1993	Dr. Bob A. Howell	2004	Dr. Steve Keinath		
1994	Eldon L. Graham	2005	Ann Birch		
1995	Gretchen S. Kohl	2006	Dr. Philip Squattrito		
1996	Fran K. Voci	2007	David L. Stickles		
1997	Dr. Thomas H. Lane	2008	Connie Murphy		
1998	Vicky S. Cobb	2009	No Recipient		
1999	Dr. Theodore E. Tabor	2010	No Recipient-Spring Awards		

Thomas H. Lane Science Education Award

2009	Ian Harrier
2010	No Recipient
2011	No Recipient

ACS NATIONAL AWARDS:

[ACS Award for Achievement in Research for the Teaching and Learning of Chemistry](#)

[ACS Award for Affordable Green Chemistry](#)

[ACS Award for Computers in Chemical and Pharmaceutical Research](#)

[ACS Award for Creative Advances in Environmental Science and Technology](#)

[ACS Award for Creative Invention](#)

[ACS Award for Creative Research and Applications of Iodine Chemistry](#)

[ACS Award for Creative Work in Fluorine Chemistry](#)

[ACS Award for Creative Work in Synthetic Organic Chemistry](#)

[ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry](#)

[ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences](#)

[ACS Award for Encouraging Women into Careers in the Chemical Sciences](#)

[ACS Award for Research at an Undergraduate Institution](#)

[ACS Award for Team Innovation](#)
[ACS Award in Analytical Chemistry](#)
[ACS Award in Applied Polymer Science](#)
[ACS Award in Chromatography](#)
[ACS Award in Colloid and Surface Chemistry](#)
[ACS Award in Industrial Chemistry](#)
[ACS Award in Inorganic Chemistry](#)
[ACS Award in Organometallic Chemistry](#)
[ACS Award in Polymer Chemistry](#)
[ACS Award in Pure Chemistry](#)
[ACS Award in Separations Science and Technology](#)
[ACS Award in the Chemistry of Materials](#)
[ACS Award in Theoretical Chemistry](#)
[Award for Volunteer Service to the American Chemical Society](#)
[Roger Adams Award in Organic Chemistry](#)
[Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry](#)
[Alfred Bader Award in Bioinorganic or Bioorganic Chemistry](#)
[Earle B. Barnes Award for Leadership in Chemical Research Management](#)
[Board of Directors Distinguished Service Award for Senior ACS Administrators](#)
[Ronald Breslow Award for Achievement in Biomimetic Chemistry](#)
[Herbert C. Brown Award for Creative Research in Synthetic Methods](#)
[James Bryant Conant Award in High School Chemistry Teaching](#)
[Arthur C. Cope Award \(Organic Chemistry\)](#)
[Arthur C. Cope Scholar Awards](#)
[Elias J. Corey Award for Outstanding Original Contribution in Organic Synthesis by a Young Investigator](#)
[F. Albert Cotton Award in Synthetic Inorganic Chemistry](#)
[Peter Debye Award in Physical Chemistry](#)
[Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry](#)
[Francis P. Garvan - John M. Olin Medal \(service to chemistry by women chemists\)](#)
[James T. Grady - James H. Stack Award for Interpreting Chemistry for the Public](#)
[Ernest Guenther Award in the Chemistry of Natural Products](#)
[E. B. Hershberg Award for Important Discoveries in Medicinally Active Substances](#)
[Joel Henry Hildebrand Award in the Theoretical and Experimental Chemistry of Liquids](#)
[Ralph F. Hirschmann Award in Peptide Chemistry](#)
[E. V. Murphree Award in Industrial and Engineering Chemistry](#)
[Nobel Laureate Signature Award for Graduate Education in Chemistry](#)
[James Flack Norris Award in Physical Organic Chemistry](#)
[George A. Olah Award in Hydrocarbon or Petroleum Chemistry](#)
[George C. Pimentel Award in Chemical Education](#)
[Priestley Medal \(distinguished services to chemistry\)](#)
[Glenn T. Seaborg Award for Nuclear Chemistry](#)
[Gabor A. Somorjai Award for Creative Research in Catalysis](#)
[E. Bright Wilson Award in Spectroscopy](#)
[The Ahmed Zewail Award in Ultrafast Science and Technology](#)
[Heroes of Chemistry](#)

Criteria and deadlines for the National ACS awards and other grants and considerations can be found at:
<http://webapps.acs.org/findawards/index.jsp>

Nomination Form
2014 Outstanding High School/Collegiate Chemistry Student
ACS Midland Section

Dept. Chair or other Nominator: _____

Telephone number: _____

Email address (required): _____

School: _____

Student's name: (Mr./Ms.) _____
(Indicate) *(Please print legibly)*

Home address: _____

Telephone number: _____

Email address (required): _____

Student's career/postgraduate plans (if known):

Please return this form to the following address no later than **March 29, 2014**:

Lauren M. Huffman
ACS Awards Committee Chair, Midland Section
The Dow Chemical Company
Michigan Operations
Building 1710, Lab 40
Midland, MI 48642
Phone: (989) 636-7371; Fax: (989) 638-6619
e-mail: lmhuffman@dow.com

Do You Want to Work with Teachers?

Gina Malczewski, Outreach Committee / Secretary

There is a lot going on in science education right now, with ACS forming a new association for science teachers, and all the discussions about Next Generation Science Standards. We are getting a number of requests for our hands-on sessions that provide activities educators can do in their classrooms. We have developed—and are continuing to do so—with help from a National IPG (Innovative Project grant) many units for teachers, and could really use assistance with their execution. You would not initially present, but could “shadow” a presenter until you are ready (and no one does these sessions alone). We provide all supplies, and the workbooks—our sessions are free to the teachers. Please contact Gina Malczewski to learn more! (reginamalczewski@gmail.com)

Outreach Overcomes Winter Weather Obstacles

Gina Malczewski, Outreach Committee / Secretary

The weather thus far in 2014 has interfered with school, and also with our Outreach schedule! We rescheduled two events, but are getting where we need to go—eventually. We offered “Energy” activities at Kids Day at the Midland Mall (Jan. 18), and also for 6th graders at Bay City All Saints (Jan. 16-17). We have been to second grade at Plymouth School twice, for an “All About Water” program, as well as one on “Observation and Measurement.” We have multiple requests to do teacher-training sessions, and are trying to work around busy schedules and bad weather probabilities.

Our “*Cosmetics: the Science of Beauty*” evening program with Jason Vogel from Dow Corning occurred Feb. 19, and other school programs in February include “Properties of Matter” with Bay City 6th graders, as well as a science fair kick-off (Feb. 12) and SPARK (Science plus Art reaching Kids) Day at Hemmeter in Saginaw.

We are working on demo and hands-on materials for teachers, and will do a new six-unit program for free with science educators at the Michigan Science Teacher Association (MSTA) in Lansing on March 6. These units focus on the Next Generation Science Standards; we are getting support from National in the form of an IPG (Innovative Project Grant). Our work (including a blog and pilot activities) will culminate in a workshop to be held at Delta on Nov. 1. Yes, volunteers are needed. More details to follow!

Outreach volunteers include people who like to plan activities, present in groups, present individually, and do prep work. We need organizers who can help with supplies and storage, those who like to work with children, and those who prefer to deal with older students or teachers. Please contact us if you are interested in learning more (reginamalczewski@gmail.com)!

Clarification of 2013 ACS President-Elect Election

Wendell L. Dilling, Director and Historian

The results of the recent ACS President-Elect election (C&EN, Nov. 25, page 5) need further clarification. The final number of votes for Diane Schmidt and Bryan Balazs was not reported. Only the first-choice votes were reported, not the number of votes they received after the second-choice votes on the ballots where Charles Kolb was the first-choice were added. An example of complete reporting of President-Elect election results for a situation like this was given in C&EN, Nov. 23, 2009, page 7, where Nancy Jackson was elected.

In Past Issues of *The Midland Chemist* **Wendell L. Dilling, Director and Historian**

40 Years Ago

In *Distinguished Visiting Scholar*: “Dr. Leslie E. Orgel, of the Salk Institute for Biological Studies, will visit Central Michigan University’s Chemistry Department this month as Distinguished Visiting Scholar. Dr. Orgel, a prolific worker in the fields of prebiotic chemistry, will present one general talk and two more specialized ones on Monday and Tuesday, March 18 and 19. His schedule of talks follows: March 18 – 4:10 P.M. (Brooks 176): ‘*Molecular Evolution*’; March 18 – 8:00 P.M. ‘*The Origins of Life*’ (Anspach 162); March 19 – 4:10 P.M. (Brooks 176): ‘*Theories of Aging*’.”

30 Years Ago

In *Authors’ Night Planned* by Wendell L. Dilling, Chairman, Authors’ Night Committee: “The Midland Section will initiate a new annual program this year called Authors’ Night. The purpose of this program is to recognize Midland Section members who published scientific books or articles, or who obtained patents during the preceding year. A second goal is to increase interaction among members by publicizing their areas of research or work. This year’s program is scheduled for Friday evening, September 14, at the Michigan Molecular Institute in Midland. The program will feature a speaker and approximately 20 poster papers based on those published during 1983 by Midland Section authors. The poster papers will be representative of the various fields of science and scientific institutions within the Midland Section. Program details will appear in the August *Midland Chemist*.”

20 Years Ago

In *From the Chair* by Robert Kohrman, Chairman ACS Midland Section: “While our section is celebrating its 75th anniversary and many of its programs have a long and hallowed tradition, the Science Education Recognition Dinner is only three years old. During the past several years, our Awards Committee, including Steve Keinath, Mike Paquette, Vicki Sible, Phil Squatrito, Paula Geller, Rob Ekeland, Ron Tecklenburg, Gretchen Kohl and several others have planned and carried out the recognition programs. The outstanding success which this event has enjoyed during the past two years is richly deserved. The dinner showcases some of the most important activities and people of the Midland Section in the recognition of the outstanding students and teachers who are found in our five-county area.”

10 Years Ago

In *New Chemistries, Making Sense of Antisense Technology* by Kristine Danowski: "Antisense oligonucleotides are short, single-stranded (ss) synthetic nucleic acids designed to block the formation of the target protein by complementary (Watson-Crick) binding to the corresponding target mRNA or pre-mRNA. The target is translated into protein, hence it is the “sense” strand. The ss oligonucleotide blocks translation, hence it is the “antisense” strand. As long as the sequence of the gene and mRNA are known, an antisense oligonucleotide can be synthesized to bind to it. Researchers in the field theorize that RNase H, an enzyme that selectively cleaves RNA-DNA hybrids, mediates the antisense effect of ss oligonucleotides inside biological cells. The idea of antisense oligonucleotides as therapeutic agents was first developed in the 1960s and 1970s. Antisense technology is used increasingly in various in vitro and in vivo model drugs, and is being developed as a therapeutic agent against viral infections, cardiovascular disease, inflammatory disorders, hematological disease, and cancer. More importantly, in the last few years the effectiveness of a number of therapeutic oligonucleotides has been tested in clinical trials. In 1998, FDA approved the first antisense drug, Vitravene™, for the treatment of cytomegalovirus retinitis in people with AIDS.”

Upcoming Dates, Events, and Other Updates

- February 28 (5:00 PM) – Buick Achievers Scholarship Program **application deadline**. For more information, see www.buickachievers.com.
- March 1 – ACS Scholars Program **application deadline**. For more information, please see [ACS Scholars Program](#).
- March 4 (5:30-9:00 PM) – ACS 2014 1st Quarter Committee Updates at Kathleen's-Apple Mountain; RSVP to Michelle Cummings by Monday, February 24 (michelle.cummings@dowcorning.com).
- March 16-20 – 247th ACS National Meeting & Exposition, Dallas, TX. For more information, see www.acs.org/content/acs/en/meetings/spring-2014.html.
- March 29 – Deadline to submit ACS Midland Section awards nominations.
- April 7 (7:00-9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- April 22 (6:00 PM) – ACS Midland Section Awards Banquet at Great Hall Banquet & Convention Center. Contact awards@acs.org for more information or to RSVP.
- May 5 (7:00-9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via conference call at phone number: 866-299-7945, participant code: 9837036#.
- August 10-14 – 248th ACS National Meeting & Exposition, San Francisco, CA.
- October 1-4 – 45th ACS Central Regional Meeting, Pittsburgh, PA. For more information, see www.acscerm2014.org.

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