

THE MIDLAND CHEMIST

A publication of the Midland Section of the American Chemical Society

January 2017, Vol. 54, No. 1

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Chair Column

Anne Kelly-Rowley, Chair, Midland Section ACS



Welcome to a new year with the Midland Section of the American Chemical Society. This is always an exciting time as we plan our upcoming activities. We have a great group of people who volunteer their time and talents to bring valuable programming to the Great Lakes Bay Region and beyond.

Our mission statement is to “Promote chemistry and improve public perception of science through innovation in research, education and career development for the benefit of our members and partners.”

You can read about the outstanding events from 2016 in earlier editions of this newsletter ([Midland Chemist archive](#)). It was a great year with activities both big and small which combined to provide a large positive impact to our community and to our profession. Stay tuned for the upcoming 2017 events in this monthly newsletter.

I'd like to encourage you to "Get involved"! Come to several different events and talk with the ACS members there. You may find a particular passion that you want to pursue. We have many volunteer opportunities available, from leadership to committee membership and even helping with single events. It's a great opportunity to get to know other chemists in the area and to both mentor and be mentored. If you have an interest in getting involved or just want to make suggestions for future events you can contact me at amkelly-rowley@dow.com.

Venue Change for January ACS Board Meeting

Anne Kelly-Rowley, Chair, Midland Section ACS

The first Midland Section ACS Board meeting of 2017 will be held the evening of Monday, January 9, beginning at 7:00 PM, at the MSU STEM Center Building (1910 West St. Andrews Road, Midland). The MSU STEM Center is located just across the street from the Midland Center for the Arts, our usual Board meeting venue. I hope to see you there.

2017 Officers and Board Election Results

Wenyi Huang, Chair, 2016 Nominations & Elections Committee

A summary of the results of the election of 2017 Officers and Board members of the Midland Section of the American Chemical Society is reported below.

Positions	Elected Members
Chair-elect (1-year term)	Wenyi Huang
Secretary (1-year term)	Kshitish Patankar
Treasurer (1-year term)	Michelle Rivard
Chair, Nominations & Elections (1-year term)	Wendy Flory
Councilor (3-year term)	Tina Leaym
Alternate Councilor (3-year term)	Steve Keinath
Directors (3 positions, 3-year terms)	Wendell Dilling Regina Malczewski Aswini Dash

A total of 96 valid ballots were received. Great appreciation is due to those who put the effort into running for a position on the board and to those who cast their votes. Congratulations and welcome to the 2017 Officers and Board members!

Final Call for Nominations for 2017 ACS Fellows Program

Diana Deese, Chair, Midland Section ACS Awards Committee

“... a fellow is a member of a group of learned people who work together as peers in the pursuit of mutual knowledge or practice ...” Wikipedia

As Chair of the Midland Section ACS Awards Committee, I would like to make everyone aware of the ACS Fellows Program.

Although the “Fellow” designation has been adopted by many professional societies, the criteria for awarding this designation vary significantly from society to society. The ACS Fellows Program uniquely recognizes a different standard of achievement and service. Specifically, the Fellow of the American Chemical Society (ACSF) designation is awarded to a member who, in some capacity, has made exceptional contributions to the science or profession **and** has provided excellent volunteer service to the ACS community.

The purpose of the ACS Fellows Program, one component of the broader ACS Awards Program, is to recognize and honor members of the American Chemical Society for their outstanding achievements in and contributions to the science and the profession **and** for their equally exemplary service to the Society.

A. Nominees

1. Nominees for ACS Fellows must be current members (including retired and emeritus members) in good standing of the American Chemical Society.
2. Current members of the Fellows Selection Committee, Fellows Oversight Committee, ACS Board of Directors, and current ACS staff are not eligible to be nominees.
3. Former members or deceased members will not be considered as nominees for ACS Fellows. However, if a member dies after his/her name is submitted as a nominee and if that candidate is selected, he/she will be granted the Fellow designation posthumously.
4. Nominees, in past and present circumstances, are expected to employ and require good safety protocols and practices in their laboratories and/or work environments; uphold the highest ethical standards in their laboratories and/or work environments; and otherwise adhere to the Chemical Professional’s Code of Conduct. Nominators must address this in the online nomination form.
5. Nomination for other awards, including national, regional, or local ACS awards, does not disqualify a member from being nominated for ACS Fellow.

B. Nominators

1. Primary and secondary nominators must be current members (including retired and emeritus members) in good standing of the American Chemical Society.
2. Current members of the Fellows Selection Committee, Fellows Oversight Committee, ACS Board of Directors, and current ACS staff are not eligible to be primary or secondary nominators.
3. The primary nominator must be eligible to submit as an individual member or on behalf of a Committee, Local Section, or Technical Division. Refer to the Nomination Types section for specific eligibility requirements for primary nominators.
4. No more than one of the nominators (primary or secondary) may be from the same work group at the nominee’s primary place of employment. If the nominee is retired, only one nominator (primary or secondary) may be from the nominee’s last place of employment prior to retirement.

5. Refer to the Nomination Types section for guidelines about serving as a nominator for more than one nomination.

For more information, see <https://www.acs.org/content/acs/en/funding-and-awards/fellows.html>

The Midland Section of the ACS is allowed two (2) nominations for ACS Fellow per year. If you know of someone who fits the criteria, or if you would like to nominate yourself, and would like to work with me to put together a nomination package, please contact me at dkdeese@dow.com.

As the deadline for National ACS Fellow nomination submissions is around the first of April, I need to have packets completed and sent back to me by February 1, 2017. There will be one thousand and one excuses that will pop up between now and February, ... so let's get started now!

Editor's note: The following list of Midland Section ACS members are those who have already been selected and honored as National ACS Fellows to date.

2010	Wendell L. Dilling, Michael J. Owen
2011	Bob A. Howell, Thomas H. Lane, Connie J. Murphy
2013	Patrick B. Smith
2014	Janet M. Smith
2015	Gretchen S. Kohl
2016	Joan M. Sabourin

Anderson Development Company Seeking Product Stewardship Manager ***Tricia Harju, Director of Human Resources, Anderson Development Company***

There is a Product Stewardship opportunity at Anderson Development Company. Essential duties include the following.

- Manage GHS/HAZCOM program. This includes SDS and label authoring and document management. Provide DOT/IATA/IMDG support.
- Manage program to comply with global product safety/chemical control regulations.
- Stay up-to-date on global product stewardship/safety regulations and company business needs. Communicate information to relevant parties including potential impact to the company.

Anderson Development Company is an award-winning, innovative specialty and custom chemical manufacturer. Anderson Development is located in Adrian, MI, within driving range of the Metro Detroit, Ann Arbor, Jackson, and Toledo areas. To find out more please visit <http://www.andersondevelopment.com>. Send resume with salary requirements to HR.Adrian@anddev.com.

Announcing the 2017 Spring Awards Banquet and Call for Nominations

Diana Deese, Awards Committee Chair, Midland Section ACS

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 and nominate that outstanding person and have them recognized at the American Chemical Society-Midland Section Spring Awards Banquet at the Great Hall and Convention Center in Midland on Wednesday, May 3, 2017. 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 1 hour to put together an award-winning letter and an additional 15 minutes soliciting supporting letters. Think of what it will mean to that person and how good you will feel about your good deed. I have listed previous award recipients and would like to remedy that frequent "No Recipient" comment, as there is surely someone deserving in every category!

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 listed them as the last page of the call for nominations along with a web address where you can find out more information. Now is the time to begin nominations for National ACS awards for 2017-2018 as most annual reviews have a deadline of November 1.

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 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. An example nomination letter can be requested from the awards chair via e-mail. Nominees must not have received the same award that they are being nominated for within the past 10 years. Nominations not meeting the minimum requirements, and submissions received after the April 1, 2017 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 right here in *The Midland Chemist*!

As always, contact me if you have any questions: Diana Deese, Midland Section ACS Awards Committee Chair (dkdeese@dow.com).

Call for Nominations: 2017 Teaching, Volunteer, Education, Chemical Sciences Awards
Diana Deese, Awards Committee Chair, Midland Section ACS

Each year, the Midland Section of the American Chemical Society presents awards to recognize outstanding achievement in the chemical sciences. Nominations for the 2017 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 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 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 in a related field, and whose primary job includes conducting experimentation or correlating information to help solve chemical problems or discover new chemical knowledge. The 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 to the Midland Section ACS Executive Committee for approval. 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.

The deadline for nominations is Saturday, April 1, 2017. Nominations not meeting the minimum requirements, and submissions received after the April 1 deadline, will not be considered. 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 High School / College Chemistry Students

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

Award recipients as well as Chemistry Olympiad winners and Fifty/Sixty/Seventy Year ACS Members will be honored at the 2017 ACS Spring Recognition Dinner at the Great Hall and Convention Center, in Midland, on Wednesday, May 3, 2017.

The Awards Committee greatly appreciates the efforts involved in nominating someone, and wishes to thank you for helping to recognize deserving students, colleagues, and educators in our local 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 Diana Deese. *Electronic submissions are acceptable and preferred.*

Diana K. Deese, Chair, Midland Section ACS Awards Committee
Phone: (989) 636-9915, E-mail: awards@midlandacs.org or dkdeese@dow.com



American Chemical Society – Midland Section

**Nomination Form for 2017 Outstanding High School / Collegiate Chemistry Student
ACS Midland Section**

Dept. Chair or other Nominator: _____

Telephone number: _____

E-mail address (required): _____

School: _____

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

Home address: _____

Telephone number: _____

E-mail address (required): _____

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

Please return this form to the following address no later than **April 1, 2017**:

Diana K. Deese
ACS Awards Committee Chair, Midland Section
Phone: (989) 636-9915
E-mail: dkdeese@dow.com

Previous Recipients of Midland Section ACS Awards

Diana Deese, Awards Committee Chair, Midland Section ACS

Elementary Level Science Education

1992 Karen Ziemelis
1993 Lela Wade
1994 Constance A. Dullock
1995 Joan Klopac
1996 Mark Hackbarth
1997 Denise Koppleberger, Cheryl Ruthig
1998 Barbara McGivern
1999 John Clark
2000 Sue Burtch, Robin Harshman-Rogers,
Vicki Richard, Clare Jorgensen
2001 Cathy Egerer, Amy Hindbaugh-Marr
2002 Maureen Becker
2003 Leon Katzinger
2004 Joan Roels
2005 Curt Moses
2006 Robin Allen
2007 Diane Huckins
2008 Rachel Pappas
2009 No Recipient
2010 No Recipient
2011 Beth Quimby
2012 No Recipient
2013 No Recipient
2014 No Recipient
2015 Molly Kelsey
2016 No Recipient

Middle Level Science Education

1992 Derrell Steffen
1993 Laurie Hepinstall
1994 JoAnn Kraut
1995 No Recipient
1996 Barbara J. Bibbee
1997 Gary J. Johnson
1998 No Recipient
1999 No Recipient
2000 No Recipient
2001 No Recipient
2002 Joel Mikusko
2003 No Recipient
2004 Christine Brillhart
2005 No Recipient
2006 Matthew Miller
2007 John Hoving
2008 Mark Koschmann
2009 Carla Piazza
2010 Melinda Coyle
2011 Jennifer Lenon
2012 Jayme Swanson
2013 John Barnes
2014 No Recipient
2015 Mark Hackbarth
2016 No Recipient

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
1995 No Recipient
1996 Sandra Schafer
1997 Mary Fredell
1998 Dale Ressler
1999 Robert Enszer
2000 Steven Kelly
2001 William Stokes
2002 Robert Hansen
2003 No Recipient
2004 Doug Grezeszak
2005 Pamela Thompson
2006 Daniel Sealy
2007 No Recipient
2008 No Recipient
2009 Nancy Vossen
2010 Sandra Schafer
2011 David Allan
2012 David Bruessow
2013 Tom Short, Sarah Beery
2014 No Recipient
2015 Jeff Yoder
2016 Lisa Parsons

College Chemistry Teaching

1989 Joan Sabourin
1990 Bob Howell
1991 Robert Kohrman
1992 Scott Hill
1993 Ajit Sharma
1994 Laura Vosejka
1995 George Eastland
1996 Martin Spartz
1997 Philip Squatrito
1998 Thomas Delia
1999 Steven E. Keinath
2000 James Hutchison

2001 Sandra Smith
2002 Margaret Hill
2003 Dale Meier
2004 Katherine Blystone
2005 Ronald Sharp
2006 Arthur G. Smith
2007 Cynthia N. Peck
2008 No Recipient
2009 No Recipient
2010 Anton Jenson
2011 No Recipient
2012 David S. Karpovich

2013 No Recipient
2014 David Baker
2015 Estelle Lebeau
2016 Angela McGuirk

Science Education Volunteer

1992	Gregg Young	2002	Joan McMahon	2012	Estelle Lebeau
1993	Peter Bonk	2003	John Blizzard	2013	No Recipient
1994	Peter Moehs	2004	Jan Zanyk	2014	Charles Nielsen
1995	Gretchen Kohl	2005	Eldon Graham	2015	Gina Malczewski
1996	John Blizzard, Richard Van Effen	2006	Tom Chamberlin	2016	Dennis Klipa
1997	Marvin Tegen	2007	Teri Bickmore, Cal Goeders		
1998	Carlton Beyer	2008	Tim Drier		
1999	William Albe	2009	Dave Stickles		
2000	Karol Childs	2010	Lisa Thackery		
2001	Donald Petersen	2011	Charles & Barbara Roth		

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	2014	Victor Atiemo-Obeng
2004	Smallwood Holoman, Jr.	2010	Theophilus Leapheart	2016	Roland Wallace
2006	Joan Sabourin	2012	Linneaus Dorman		

Outstanding Chemical Technician

1997	Connie J. Murphy	2005	Bill Rievert	2013	No Recipient
1998	David Stickles	2006	Margo McIvor	2014	Jeff Seifferly
1999	Ronald L. Good	2007	Debbie Bailey	2015	Brian Scherzer
2000	Kurt A. Bell	2008	Sue Perz	2016	Dana Fuerst
2001	Gordon R. Roof	2009	Diana Deese		
2002	Cynthia J. Gould	2010	No Recipient		
2003	Robert Krystosek	2011	Amy Tesolin-Gee		
2004	Sherry Allen	2012	Amber Wallace		

Outstanding Achievement and Promotion of the Chemical Sciences

1976	Dr. Turner Alfrey, Jr.	1992	Dr. Donald A. Tomalia	2008	Dr. Jack Kruper
1977	Dr. Etcyl H. Blair	1993	Dr. Dale J. Meier	2009	No Recipient
1978	Dr. David C. Young	1994	Dr. Philip T. Delassus	2010	No Recipient
1979	Dr. Vernon A. Stenger	1995	Dr. Duane B. Priddy	2011	Dr. James Falender
1980	Dr. Daniel R. Stull	1996	Dr. Hans G. Elias	2012	No Recipient
1981	Dr. Bob A. Howell	1997	Dr. Ludo K. Frevel	2013	No Recipient
1982	Dr. Wendell L. Dilling	1998	Dr. Patrick B. Smith	2014	No Recipient
1983	Dr. Donald R. Weyenberg	1999	Dr. David E. Henton	2015	Dr. James Tonge
1984	Dr. Edwin P. Plueddemann	2000	Dr. Steven J. Martin	2016	Dr. Ronda L. Grosse
1985	Dr. Raymond P. Boyer	2001	Dr. Edwin C. Steiner		
1986	Stanley P. Klesney	2002	Dr. Thomas J. Delia		
1987	Dr. Warren B. Crummett	2003	Dr. Robert M. Nowak		
1988	Dr. A. Lee Smith	2004	Herbert D. (Ted) Doan		
1989	Dr. Do Ik Lee	2005	Dr. Michael J. Owen		
1990	Dr. Joseph E. Dunbar	2006	Dr. Robert E. Kohrman		
1991	Dr. Thomas H. Lane	2007	Dr. Petar R. Dvornic		

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.	2012	No Recipient
1991	Dr. Donald R. Petersen	2002	Joan Sabourin	2013	No Recipient
1992	Dr. Wendell L. Dilling	2003	John Blizzard	2014	No Recipient
1993	Dr. Bob A. Howell	2004	Dr. Steven E. Keinath	2015	Amy Tesolin-Gee
1994	Eldon L. Graham	2005	Ann Birch	2016	Dr. Bob A. Howell
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		

ACS National Awards for 2017–2018 Nomination

Diana Deese, Awards Committee Chair, Midland Section ACS

Editor's note: Several Midland Section ACS members have received various National ACS awards over the years. Please see their names, as noted, below.

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

[ACS Award for Affordable Green Chemistry](#)

2012 William J. Kruper

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

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

1986 Eugene E. Kenaga

[ACS Award for Creative Invention](#)

1984 Edwin P. Plueddemann

[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](#)

1970 Raymond F. Boyer

[ACS Award in Chromatography](#)

1991 Hamish Small

[ACS Award in Colloid Chemistry](#)

[ACS Award in Industrial Chemistry](#)

[ACS Award in Inorganic Chemistry](#)

[ACS Award in Organometallic Chemistry](#)

[ACS Award in Polymer Chemistry](#)

1973 Turner Alfrey, Jr.

[ACS Award in Pure Chemistry](#)
[ACS Award in Separations Science and Technology](#)
[ACS Award in Surface Chemistry](#)
[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](#)
[Alfred Bader Award in Bioinorganic or Bioorganic Chemistry](#)
[Earle B. Barnes Award for Leadership in Chemical Research Management](#)

1987 Malcolm E. Pruitt
2009 Gregg A. Zank
2014 William F. Banholzer

[Ronald Breslow Award for Achievement in Biomimetic Chemistry](#)
[Herbert C. Brown Award for Creative Research in Synthetic Methods](#)
[Alfred Burger Award in Medicinal Chemistry](#)
[James Bryant Conant Award in High School Chemistry Teaching](#)
[Arthur C. Cope Award](#)
[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](#)
[James T. Grady - James H. Stack Award for Interpreting Chemistry for the Public](#)
[Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator](#)
[Ernest Guenther Award in the Chemistry of Natural Products](#)
[Kathryn C. Hach Award for Entrepreneurial Success](#)
[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](#)
[Ipatieff Prize](#)
[Frederic Stanley Kipping Award in Silicon Chemistry](#)
1990 John L. Speier, Jr.
[Irving Langmuir Award in Chemical Physics](#)
[Josef Michl ACS Award in Photochemistry](#)
[E. V. Murphree Award in Industrial and Engineering Chemistry](#)
[Nakanishi Prize](#)
[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](#)
[Charles Lathrop Parsons Award](#)
[George C. Pimentel Award in Chemical Education](#)
[Priestley Medal](#)
[Glenn T. Seaborg Award for Nuclear Chemistry](#)
[Gabor A. Somorjai Award for Creative Research in Catalysis](#)
[George and Christine Sosnovsky Award for Cancer Research](#)

[E. Bright Wilson Award in Spectroscopy](#)
[Ahmed Zewail Award in Ultrafast Science and Technology](#)

Criteria and deadlines for the National ACS awards, and other grants and considerations, can be found at <http://www.acs.org/content/acs/en/funding-and-awards/awards/national/nominations.html>

The full list of National ACS awards by title can be found at <https://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic.html>

Midland Section Recipients of National, Division, and Regional ACS Awards ***Diana Deese, Awards Committee Chair, Midland Section ACS***

[National ACS Fellows](#)

2010	Wendell L. Dilling, Michael J. Owen
2011	Bob A. Howell, Thomas H. Lane, Connie J. Murphy
2013	Patrick B. Smith
2014	Janet M. Smith
2015	Gretchen S. Kohl
2016	Joan M. Sabourin

[National ACS Heroes of Chemistry](#)

1999	Etcyl Blair, Ray Rigterink, Art Sexton
2000	L.C. Rubens
2015	David Devore, David Neithamer, Peter Nickias, Jasson Patton, James Stevens, David Wilson

[National ACS Helen M. Free Award for Public Outreach](#)

2015	Regina Malczewski
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[National ACS Local Section Outreach Volunteer of the Year Award](#)

2014	Regina M. Malczewski
2015	Michelle L. Rivard
2016	Dave Stickles

[ACS Division of Chemical Technicians National Chemical Technician Award](#)

2000	David L. Stickles
2001	Susan Youngs
2006	Robert Krystosek
2007	Margo McIver
2008	Janet Smith
2014	Diana Deese
2015	Jeff Seifferly

[ACS Division of Professional Relations Henry Hill Award](#)

2016	Thomas Lane
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[Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences](#)

2016	Thomas Lane (CERM, Covington, KY)
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[E. Ann Nalley Regional Award for Volunteer Service to the American Chemical Society](#)

2013 Bob Howell (CERM, Mount Pleasant, MI)

2014 Patrick B. Smith (CERM, Pittsburgh, PA)

In Search of the Modern Philosophers Stone: Turning Spiritual Lead into Gold
Stacy Leroy Daniels, Emeritus Member, Midland Section ACS



Editor's note: Stacy Daniels prepared the poem below on the occasion of the centennial (1916-2016) celebration of the Alpha Beta Chapter of the Alpha Chi Sigma Fraternity at the University of Michigan, an event which he attended on November 11, 2016, in Ann Arbor, MI.

[In] [Se] [Ar] [C] [H] [O] [F] [Th]
[Mo] [By] [Cr] [N] [P] [H] [J] [La] [S] [O] [P] [H] [Cr] [S] [S] [Ca] [O] [Ne]:
[Ti] [Ru] [In] [Ge] [S] [P] [Br] [J] [Ca] [U] [Al] [Po] [In] [Ca] [Au]

The goal of ancient alchemists, who number thousands-fold,
'Twas said in an old story, which often has been told,
"Go journey forth and seek out, the Philosopher's Stone, behold.
Then wisely use its power; and, possibly, if controlled
It might just turn base metals, into the purest gold."

One alchemist stands above, all others for all time
Concocting strange transmutations, arcane and more sublime.
His name symbolically contained, in ancyeht chemyst rime:

[P] [H] [J] [Li] [P] [P] [U] [S] [Au] [Re] [O] [Lu] [S] [Th] [He] [O] [P] [H] [Ra] [S] [Ti] [U] [S]
"[P] [Ar] [Ar] [Ce] [Lu] [S] [U] [S]" [B] [O] [M] [B] [As] [Ti] [U] [S] [Y] [O] [N] [Po] [He] [N] [He] [J] [Am].

In our poor chemurgic minds, the elements number, vast.
As "earth", "water", "air", and "fire", they sometimes seem be cast.
Phlogiston burns, transforms, from solid into gas.
And "periodic" findings, leave questions to be asked
About analogs of "U" and "M", within the atomic mass.

Both ancient and new metals, repeat the resounding "UM":

Lead (*Pl-UM-b-UM*); Al-UM-in-UM; Dubni-UM; Tin (*Stann-UM*); Tantal-UM; Titani-UM; Roentgeni-UM;
Iron (*Ferr-UM*); Fermi-UM; Terbi-UM; Mercury (*Hydragyr-UM*); Heli-UM; Praseodymi-UM; Silver (*Argent-UM*);
Americi-UM; Copper (*Cupr-UM*); Thuli-UM; Neptuni-UM; Plutoni-UM; Copernici-UM;
Gold (*Aur-UM*); Bohri-UM; Seborgi-UM; & Rutherfordi-UM.

Metals, like our fertile minds, are classed by lustrous gleams:
Young metals, bright and malleable, conduct our thoughts to scenes,
Molded into myriad shapes, which follow recurrent themes.
As aged metals become forged, by experiences and schemes.
Metals, given time, mature, transmute to “golden” dreams.

Our elders, and our teachers, Altotus, so renown,
Contemplated myriads, of elements. Compounds
Are synthesized from atoms. Create then break down.
All birthed amongst the cosmos, a few became earthbound,
All encountered in our lives, continue to astound.

We can't defy our chemistry, like Prometheus unbound
We contemplate the Objects, fraternally, profound,
We renew mutual ties. True lasting friendship, found
To advance chemistry together, as brothers all around,
Both science and profession, to duly here surround.



Alpha Beta Chapter of Alpha Chi Sigma Fraternity, at U of *Meesh-i-gan*,
Aids its members honorably, to find their niche. Attain
Their ambitions as chemists: too strive, compete, and gain
Throughout all their mortal lives, those objects to proclaim
Linked by double-bonded rings, in an unending chain.

Yours in the double bond –
Brother Stacy Leroy Daniels (ΑΧΣ AB 1957), 11 Nov 2016

Added Editor's note: Additional, prepared remarks offered by Stacy Daniels (AB 10 May 1957) at the centennial celebration event of the Alpha Beta Chapter of the Alpha Chi Sigma Fraternity at the University of Michigan are provided here.

Dear Brothers:

I continue to be amazed at how our fraternal brothers are intertwined by past events (*).

I was born in Frankfort, MI in 1937 (~20 years after the AB chapter at UM was formed); graduated from Midland High School in 1955 (~40 years after); received my PhD (ChE) from UM in 1967 (~50 years after); and here I am in 2016 (~100 years after the formation of the AB chapter).

My father (Oscar L. Daniels) obtained an M.S. in Chemistry at UM in the mid-1930s (not an ΑΧΣ brother). He later became a successful educator serving as Superintendent of Frankfort Public Schools in Benzie County in the 1930s-1940s.

In early 1944, he talked with Willard Dow, an AB brother, at a Rotary Club lunch in Frankfort, and was offered a position "down at the Dow's" in Midland. I graduated from MHS in 1955, and went on to graduate from UM. I was initiated in AB in 1957 and lived at 1319 Cambridge while serving as "house manager" in those days.

Sometime about 1958, a distinguished old gentleman knocked on the door. He was Dr. Norbert Adolph Lange, of Lange's Handbook fame, and one of our founding brothers. Now I seem to have become that "curmudgeon" from our past.

After obtaining my PhD (ChE) in 1967, I began a 30-year career as a "biochemical-environmental" engineer at Dow Chemical Company; an Adjunct Professor in ChE and EnvE at UM; consulted for the U.S. EPA and MI DEQ; and later was director of research for a small business for another 15 years.

I'm still "practicing the trade" as an environmental consultant, and I recently wrote, "The Comedy of Crystal Lake", a true story of the attempt back in 1873 to build a canal from Crystal Lake to Lake Michigan www.CrystalLakeComedy.com.

Yours in the double bond –
Brother Stacy Leroy Daniels (AXΣ AB 1957), 11 Nov 2016

(*) Some fraternal memories:

- Initiation on May 10, 1957.
- Bunking up on the third floor.
- The hexagons on the living room ceiling.
- The commissary in the basement.
- Lying on the roof to watch Sputnik I pass overhead.
- Playing in the "Toilet Bowl" (football game) with our Alpha Upsilon brothers from MSU.
- Tossing Frisbees in the front lawn across from the Alpha Chi Omega sorority.
- Driving over to Ypsi on Sunday nights for pizza at the "Casanova", and then rushing back to watch "Maverick" on the library TV.
- Classes in West and East Engineering buildings, and the "new" G.G. Brown fluids lab.
- Programming the IBM 650 computer in the basement of Rackham.
- AB going "coed" in 1958(!) with the first black, female, cocker spaniel puppy, "Chemie", who became our mascot.
- Meeting Dr. Norbert Adolph Lange, Author of Lange's Handbook.
- Reciting the chemical name for the essence of black pepper: N-5-3,4-methylene dioxy phenyl 2,4-pentadienyl piperidine.
- A very clumsy brother who could jump across a broomstick after a couple of beers, but never when sober.
- PhD "bell-ringing" ceremonies at the Pretzel Bell.
- The brothers who were best man and groomsmen at my wedding.

Final Editor's note: Finally, some additional correspondence (and very interesting Dow history) was shared by Stacy Daniels with the Editors of *The Midland Chemist* and is included here.

It was a great experience to go back to good old Ann Arbor town, visit the old AB chapter house, and especially meeting with all of the spirited young brothers. A crowd of ~80 were in attendance at the centennial celebration event. They seemed to appreciate the remarks of an old curmudgeon.

I thought that since there has been a long list of brothers, including Willard Dow and William J. Hale (**), who have migrated to Midland from UM and been members of the Midland Section of the ACS, that this subject matter might be of some interest for the *Midland Chemist* readers.

Being a four-time graduate of UM [BS (ChE) 1960; MSE (SanE) 1961; MSE (ChE) 1963; PhD (ChE) 1967], and belonging to the local chapter there may have introduced a bit of bias in my poem!

I have a lot more information, including a list of all of the fraternity membership, the history of the AB chapter house, the Alchemists Club at UM, etc. Dr. Stacy Leroy Daniels, 3901 Orchard Drive, Midland, MI 48640, phone 989-835-5593.

(**) Dr. William J. Hale was instrumental in the formation of the AB Chapter, and listed as an "Honorary Member" of the Alchemists in 1916. In 1904, Dr. Hale came to Michigan to teach chemistry at the University of Michigan. At U of M he served as instructor from 1904 to 1908, Assistant Professor from 1908-1915, and Associate Professor from 1915-1919. There he also came into association with Dr. Herbert H. Dow. Hale and Dow developed a team of research and production scientists that formed the foundation of the quickly growing Dow Chemical Company. It was also at U of M that he met Helen Dow, a student in his chemistry class. They were married on February 7, 1917 and had a daughter, Ruth, on February 22, 1918. Shortly after Ruth's birth, Helen contracted the Spanish Flu and died on October 16, 1918. William Hale never remarried. Hale was considered the Father of Chemurgy, from the Greek signifying "chemistry at work". According to Hale, "Chemurgy" was a word I had need to coin to depict that field of chemistry initiated not by man but by Nature. It is best defined as the "direction of nature's life agencies to the production of chemicals for industry". Hale believed that the greatest of all chemurgic industries would be the ethyl alcohol industry. ["Biochemical Engineering" (?)] [William J. Hale Papers, <http://archives.msu.edu/findaid/176.html>]

Scholarship Committee Update

Gina Malczewski, Scholarship Committee, Midland Section ACS

Each spring in March/April ACS scholarship applications administered through the Midland Area Community Foundation are reviewed. This past year, Ray Leenhouts, Gina Malczewski, and Paul Schroll worked on the selection process for scholarships awarded under the auspices of the Midland Section of the ACS. Six students applied in 2016, and the top three applicants were awarded scholarships of \$2,000 each.

We are hoping to increase our pool of applicants for the next cycle. To qualify, a student must major in a chemistry-related field, have graduated from high school in one of our five ACS member counties (Saginaw, Bay, Midland, Gratiot, or Isabella), and be successfully studying at a college or university in Michigan. The number of scholarships and the amounts awarded are based on the fund's financial status each year.

Application opportunities for 2017 scholarships opened on December 1, 2016, and the details can be found at the Midland Area Community Foundation website at <http://www.midlandfoundation.org/>.

Paul Schroll is ending his tenure on the scholarship committee and we sincerely appreciate his excellent leadership over the past three years. Julie Villano, Assistant Principal at H.H. Dow High School, will assume the Scholarship Committee Chair duties beginning with the 2017 scholarship review process.

HANTZ GROUPSM

Dow Chemical Workshops

UPCOMING WORKSHOPS

- Thursday
May 18th, 2017
Retirement
Workshop
- Thursday,
August 17th, 2017
Estate Planning

UPCOMING WORKSHOPS

- Thursday
May 18th, 2017
Retirement
Workshop
- Thursday,
August 17th, 2017
Estate Planning

FOR MORE INFORMATION:
Please Call Brett at
(989) 839-4916

NEXT SCHEDULED WORKSHOP:

2017 PROACTIVE FINANCIAL PLANNING
JANUARY 26TH, 2017 @ 5:00 PM
MIDLAND COUNTRY CLUB

SPONSORED BY:
HANTZ FINANCIAL SERVICES, INC.*,
Brett Gehringer & Andrew Borowiak

SPEAKER: Chelsea Kroll

Join us for a workshop that may help
start 2017 off on the right track!

TOPICS TO BE COVERED:

- Retirement Planning Strategies
- Planning for children's education
- Roth IRA's for high income earners
- Benefits of Hyatt prepaid legal services

Open Forum for Q&A at conclusion

Refreshments will be provided

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Planning for 2019 Midland Section Centennial Exhibit, Opportunities for ACS Member Involvement **Wendell L. Dilling, Chair, Midland Section ACS Historical Exhibit Committee**

The Midland Section ACS Centennial Exhibit at the Herbert D. Doan Midland County History Center planned for 2019 is a very special occasion. It only happens once in a hundred years. Several Midland Section members have developed topics or have agreed to develop topics for this upcoming seven-month exhibit. Several other topics suggested by the planning committee need the help of additional members to develop them for the exhibit.

ACS members (present and past) who have or will develop topics and their topics are as follows:

- Bob Kohrman – Formation of the Midland Section and the early years, 1919-1922. Herbert H. Dow and the Midland Section, 1898-1930. William J. Hale, the founding of the Midland Section, and Edgar C. Britton, 1876-1952. Lists of Section Chairs, Chair-Elects, Secretaries, Treasurers, Councilors, and Alternate Councilors, 1919-2019.
- Lee Smith, V.A. Stenger, F.K. Voci, and E.L. Warrick – Some aspects of the history of the Midland Section, 1917-1994.
- Stan Klesney – Some aspects of the history of the Midland Section, 1919-1976.
- Wendell Dilling – History of the Fall Scientific Meeting, 1945-2019. Outstanding local section award plaques and trophies, 1973-2019.
- Thomas Lane – Copy of January 7, 1952, issue of *Chem. Eng. News* (Edgar Britton on cover as ACS President).
- Steve Keinath and Vickie Langer – History of *The Midland Chemist*, 1964-2019.
- Gina Malczewski – History of Midland Section Outreach, Students, and Kids and Chemistry programs.

Several other topics are yet to be developed. The Exhibit Committee has identified the following topics that should be included in the exhibit and need the help of additional members to develop them:

- Midland Section members who have served as ACS President or National Directors or been candidates for those offices (partially developed, 1937-2009).
- Central Regional ACS Meetings hosted by the Midland Section (partially developed, 1982-1994).
- Midland Section National Chemistry Week Celebrations (partially developed, 1987-1991).
- Impact of early Midland Section leaders on Midland and the world.
- How Midland Section members made the world better by their inventions and discoveries as documented by their awards and patents.
- Selected Midland Section leader's stories and related artifacts.
- Other selected significant Midland Section events.

- Photos of Midland Section officers, other members, and events.
- Original significant patents by Midland Section members.
- Other personal and Midland Section ACS awards or mementos.
- Notebook or personal journal excerpts about the Midland Section or technologies developed by Midland Section members.
- Other items related to Midland Section history in which you have a special interest.

Extensive archives of the Midland Section ACS are available in the Clarke Historical Library at Central Michigan University and are available for research.

Please contact the author (dilli1wl@cmich.edu or 989-631-1621) with questions, or to volunteer for one or more of these topics.

In Memoriam – Manson C. (Bud) Carpenter
Steve Keinath, Co-Editor, The Midland Chemist

Editor’s note: Bud Carpenter’s obituary as it appears here is reprinted, in part, from the December 15, 2016 issue of the *Midland Daily News*. Bud became a member of the American Chemical Society in 1950 and was a 66-year ACS member at the time of his passing.



Manson C. (Bud) Carpenter was born June 17, 1924 in Highland Park to Ruth (Mallory) and Manson C. Carpenter. He passed away Sunday, Dec. 11, 2016.

He served for three years in the U.S. Army during World War II, including a year in New Guinea and the Philippines campaign. Following the war, Carpenter graduated from the University of Michigan as a chemical engineer.

He then began a 37-year career with The Dow Chemical Co., holding a variety of positions in technical service and development, business and international management, marketing communications and public relations. Although primarily based in Midland, he also worked in Ludington and overseas in the Netherlands. Carpenter retired as corporate director of communications.

His second career was as vice president/executive director of the Midland County Convention and Visitors Bureau. Carpenter shared his love of Midland's architectural and business highlights until retiring in 2001.

Concurrently, he had served his community through involvement with Midland County's Council on Aging, United Way, Community Foundation, Morning Rotary Club and Dow Chemical and Dow Corning's Community Advisory Panels.

In Carpenter's spare time, he managed to swim almost 10,000 miles at the Midland Community Center. He also enjoyed swimming and cross-country skiing at the family cottage on Crystal Lake in Benzie County.

Bud said, "Over many years, I have been blessed by the wonderful support, guidance and love from my three children, Chuck Carpenter, Carolyn Moats and Ruth Forrest, and my wife, Dorothy. That love and support extended with my grandchildren and great-grandchildren."

Carpenter was preceded in death by his parents and wife, Dorothy Brown Carpenter. He is survived by his sister, Frances McPherson; his children, Chuck (Sally) Carpenter, Dr. Carolyn Moats and Ruth Forrest; his grandchildren, Nick, Julia and Will Carpenter, Dr. Carrie (Ben) Geer, Ryan Moats, Luke (Annemarie) Forrest, Eliza Forrest, Alex (Lana) Forrest; and great-grandchildren, Lawrence, Madeline and Charlotte Geer, and Caitlin and Nick Forrest.

Bud also enjoyed his relationship with his many nieces and nephews, cousins and in-laws over the years. He is survived by brother-in-law, Paul Brown; and sisters-in-law, Jean Hanners, Lucille Stephenson, Sally Brown and Judy Brown.

Those wishing to make a memorial donation should direct it to either United Way of Midland County, 230 W. Main St., Midland, or the First United Methodist Church, 315 W. Larkin Street, Midland.

Visitation for Bud took place from 3:00 p.m. until a memorial service at 4:30 p.m., on Friday, Dec. 16, 2016 at Smith-Miner Funeral Home, 2700 W. Wackerly St., Midland, with the Rev. Dr. Jeff Maxwell officiating followed by military rights under the auspices of the U.S. Army and Midland County Veterans.

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Upcoming Dates, Events, and Other Updates

- January 1 – Application opportunities are open for 2017 Midland Section ACS scholarships. Details can be found at the Midland Area Community Foundation website at <http://www.midlandfoundation.org/>. **Please note the February 28 deadline for submitting scholarship applications.**
- January 9 (7:00 – 9:00 PM) – ACS Board meeting, MSU STEM Center, Midland (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166. **Please note the change of venue from MCFTA to MSU STEM Center.**
- January 26 (5:00 PM) – Hantz Group Dow Chemical Workshop, *2017 Proactive Financial Planning*, Midland Country Club. Speaker: Chelsea Kroll. For more information, and to register for the workshop, please contact Brett Gehringer at 989-839-4916.
- February 1 – **Deadline for National ACS Fellow nomination packages** to be sent to Diana Deese, Chair, Midland Section ACS Awards Committee. For more information or any questions, please contact Diana Deese at dkdeese@dow.com.
- February 6 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166.

- February 28 – **Deadline for applications for 2017 Midland Section ACS scholarships.** Details can be found at the Midland Area Community Foundation website at <http://www.midlandfoundation.org/>.
- March 6 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166.
- April 1 – **Deadline for Midland Section ACS Spring Awards nominations** to honor outstanding educators, volunteers, and colleagues. For more information, contact Diana Deese, Midland Section ACS Awards Committee Chair, at dkdeese@dow.com or 989-636-9915.
- April 2-6 – 253rd ACS National Meeting & Exposition, San Francisco, CA. For more information, see <https://www.acs.org/content/acs/en/meetings/spring-2017.html>
- April 10 (7:00 – 9:00 PM) – ACS Board meeting, Dow Science Building, Central Michigan University (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166. **Please note the change of venue from MCFTA to CMU.**
- May 1 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166.
- May 3 (save the date, evening program) – Midland Section ACS Spring Awards Banquet, Great Hall and Convention Center, 5121 Bay City Road, Midland. For more information, contact Diana Deese, Midland Section ACS Awards Committee Chair, at dkdeese@dow.com or 989-636-9915.
- June 5 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166.
- June 7-9 – 2017 Central Regional Meeting (CERM 2017), Detroit, MI. For more information, see <http://acscerm2017.org/>.
- August 7 (7:00 – 9:00 PM) – ACS Board meeting, MCFTA Board Room (in person), or via a WebEx conference call connection at [Midland Section WebEx Board Meeting](#), meeting number/access code: 718 550 008, phone number: 989-633-1166.
- August 20-24 – 254th ACS National Meeting & Exposition, Washington, DC. For more information, see http://www.chemistryviews.org/details/event/2351921/254th_ACS_National_Meeting_Exposition.html.

The Midland Chemist is published twelve times a year by the Midland Section of the American Chemical Society, P.O. Box 2695, Midland, MI 48641-2695, <http://www.midlandacs.org>.

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