

# THE MIDLAND CHEMIST

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From the Chair

## First Quarter Momentum Continues...

The first quarter of the year has indeed been event-filled. We have already done four "Bringing Science to Life in the Classroom" programs, done Saturday and evening programs, had a successful Education Day with the Saginaw Spirit, and visited at least two schools. (See also "On the Road with Outreach" on page 4.)

We have attempted to engage potential new members, begun Handbook revisions AND we have engaged some new volunteers! We have many more events planned, however, and encourage your support and involvement.

Senator Carl Levin is our keynote speaker at the *Tech-knowledge-y 2012* event on April 14 at Delta College (see article on page 5). This is a career-oriented event—but not a typical job fair—offering a panel discussion about STEM careers, along with job skill-related workshops, and men-

toring opportunities. This event is possible through an ACS grant of \$1000 and the generosity of Delta College, our co-sponsor.

Earth Day is April 21. This year we have a "recycling theme"; many activities and exhibits—and opportunities to recycle—are offered! The Awards Banquet is May 3 at the Great Hall (see below). The Turner-Alfrey visiting professor series will also begin soon (details to come).

You should be very proud of our Section's work so far in 2012. Please join us as a participant or planner and we hope you get a chance to see your dues at work!



Gina Malczewski

*Gina Malczewski*

Diana Deese, Awards Chair

## Comedian Chemist Ludovice to Speak at Awards Banquet

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 to be recognized at the American Chemical Society-Midland Section Awards Banquet which will be held on May 3 at the Great Hall and Convention Center in Midland.

This promises to be an exciting event as we have slated ACS speaker Dr. Peter Ludovice, Associate Professor in the School of Chemical and Bio-molecular Engineering at Georgia Institute of Technology (www.drpetecomedy.com). Dr. Ludovice will present *Lab Coats & Other Fashion Statements: The Lighter Side of the Chemical Sciences*.

### ACS Spring Awards Banquet Featuring Dr. Pete Ludovice:

*Lab Coats & Other Fashion Statements:*

*The Lighter Side of the  
Chemical Sciences*

**May 3, 2012**

**Program begins at 6 pm**

**Great Hall and Convention Center**

**RSVP by April 24 to Diana Deese**

**awards@midlandacs.org**

**Tickets \$13 / person**

(awardees attend free)

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. For those of you sequestered in labs who feel you might not be able to

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## Calendar for April/May

Apr 9	ACS Fellows Nominations Due
Apr 9	ACS Board Meeting, 7pm
Apr 10	Kids' pre-registration for Tech-knowledge-y 2012
Apr 14	Tech-knowledge-y 2012
Apr 16	Deadline for Spring Awards Banquet Nominations
Apr 21	Earth Day
Apr 24	RSVP deadline for Spring Awards Banquet
May 3	Spring Awards Banquet
May 7	ACS Board Meeting, 7pm

Click on the Calendar button at  
<http://www.midlandacs.org>  
for more details.

attend unless you nominate someone, I say save the date and come on out for a night of food, fun, and fraternization!

The process of nominating can be fun and easy, not to mention the warm 'fuzzy' you get. 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 nomi-

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(Continued from page 1)  
nating him or her.

From personal experience, if you know the deserving person, it only takes 30 minutes to put together an award-winning letter plus an additional 15 minutes soliciting and following up on supporting letters. 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 ACS offers at the national level. See [http://webapps.acs.org/findawards/detail.jsp?ContentId=CNBP\\_022409](http://webapps.acs.org/findawards/detail.jsp?ContentId=CNBP_022409) for more information.

The awards committee has made a few changes this year regarding nomination submissions. Nomination packets for all awards (except outstanding high school and collegiate awards) must, at a minimum, consist of a current resume or equivalent, your letter of nomination, and at least one supporting nomination letter 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, Diana Deese.

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.

The deadline for nominations is April 16, 2012. Nominations not meeting the minimum requirements, and submissions received after the April 16 deadline, will not be considered. Submissions by mail are acceptable; electronic (e-mail) submissions are preferred. All submissions must be accompanied by the name, position, address and phone number of the nominator.

## **Nominations for the 2012 awards are invited for the following areas:**

*Outstanding Achievement in Elementary Level Science Teaching*

*Outstanding Achievement in Middle Level Science Teaching*

*Outstanding Achievement in High School Chemistry Teaching*

*Outstanding Achievement in 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 Achievement in 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 coursework 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.

### **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.

Award recipients as well as Chemistry Olympiad winners and Fifty/Sixty Year ACS Members will be honored at the ACS Recognition Dinner, featuring ACS speaker/comedian Dr. Peter Ludovice, on May 3, 2012 at the Great Hall in the Valley Plaza, Midland.

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.

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Please pass this information along to anyone involved in our local science programs!

A list of previous years' award winners follows. For example nominations or more detail on any award, please contact Awards Chair, Diana Deese, by phone (989) 842-5367 or email at [awards@midlandacs.org](mailto:awards@midlandacs.org). Electronic submissions are preferred, but nominations can be sent via U.S. mail to:

ACS Awards Committee  
c/o Steve Keinath  
Michigan Molecular Institute  
1910 West St. Andrews Road  
Midland, MI 48640-2696

### Elementary Level Science Education

- 1992 Karen Ziemelis
- 1993 Lela Wade
- 1994 Constance A. Dullock
- 1995 Joan Klopccic
- 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

### 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

### 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

### College Chemistry Teaching

- 1989 Joan Sabourin
- 1990 Bob Howell
- 1991 Robert Kohrman
- 1992 Scott Hill
- 1993 Ajit Sharma
- 1994 Laura Vosejpa
- 1995 George Eastland
- 1996 Martin Spartz
- 1997 Philip Squattrito
- 1998 Thomas Delia
- 1999 Steven 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

### Science Education Volunteer

- 1992 Gregg Young
- 1993 Peter Bonk
- 1994 Peter Moehs
- 1995 Gretchen Kohl
- 1996 John Blizzard  
Richard Van Effen
- 1997 Marvin Tegen
- 1998 Carlton Beyer
- 1999 William Albe
- 2000 Karol Childs

- 2001 Donald Petersen
- 2002 Joan McMahon
- 2003 John Blizzard
- 2004 Jan Zanyk
- 2005 Eldon Graham
- 2006 Tom Chamberlin
- 2007 Teri Bickmore  
Cal Goeders
- 2008 Tim Drier
- 2009 Dave Stickles
- 2010 Lisa Thackery
- 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
- 2004 Smallwood Holoman, Jr.
- 2006 Joan Sabourin
- 2008 Sandra Parker
- 2010 Theophilus Leapheart

### Outstanding Chemical Technician

- 1997 Connie J. Murphy
- 1998 David Stickles
- 1999 Ronald L. Good
- 2000 Kurt A. Bell
- 2001 Gordon R. Roof
- 2002 Cynthia J. Gould
- 2003 Robert Krystosek
- 2004 Sherry Allen
- 2005 Bill Rievert
- 2006 Margo McIvor
- 2007 Debbie Bailey
- 2008 Sue Perz
- 2009 Diana Deese
- 2010 No Recipient-Spring Award
- 2011 Amy Tesolin-Gee

### Outstanding Achievement and Promotion of the Chemical Sciences

- 1976 Dr. Turner Alfrey, Jr.
- 1977 Dr. Etcyl H. Blair
- 1978 Dr. David C. Young
- 1979 Dr. Vernon A. Stenger
- 1980 Dr. Daniel R. Stull
- 1981 Dr. Bob A. Howell
- 1982 Dr. Wendell L. Dilling
- 1983 Dr. Donald R. Weyenberg
- 1984 Dr. Edwin P. Plueddemann
- 1985 Dr. Raymond P. Boyer
- 1986 Stanley P. Klesney
- 1987 Dr. Warren B. Crummett
- 1988 Dr. A. Lee Smith
- 1989 Dr. Do Ik Lee
- 1990 Dr. Joseph E. Dunbar
- 1991 Dr. Thomas H. Lane
- 1992 Dr. Donald A. Tomalia
- 1993 Dr. Dale J. Meier
- 1994 Dr. Philip T. Delassus
- 1995 Dr. Duane B. Priddy
- 1996 Dr. Hans G. Elias

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1997 Dr. Ludo K. Frevel  
1998 Dr. Patrick B. Smith  
1999 Dr. David E. Henton  
2000 Dr. Steven J. Martin  
2001 Dr. Edwin C. Steiner  
2002 Dr. Thomas J. Delia  
2003 Dr. Robert M. Nowak  
2004 Herbert D. (Ted) Doan  
2005 Dr. Michael J. Owen  
2006 Dr. Robert E. Kohrman  
2007 Dr. Petar R. Dvornic  
2008 Dr. Jack Kruper  
2009 No Recipient  
2010 No Recipient-Spring Awards  
2011 Dr. James Falender

#### **Outstanding Service to the American Chemical Society**

1989 Dr. David C. Young  
1990 Dr. Linneaus C. Dorman  
1991 Dr. Donald R. Petersen  
1992 Dr. Wendell L. Dilling  
1993 Dr. Bob A. Howell

1994 Eldon L. Graham  
1995 Gretchen S. Kohl  
1996 Fran K. Voci  
1997 Dr. Thomas H. Lane  
1998 Vicky S. Cobb  
1999 Dr. Theodore E. Tabor  
2000 Drs. Peter & Patricia Dreyfuss  
2001 Dr. George W. Eastland, Jr.  
2002 Joan Sabourin  
2003 John Blizzard  
2004 Dr. Steve Keinath  
2005 Ann Birch  
2006 Dr. Philip Squattrito  
2007 David L. Stickles  
2008 Connie Murphy  
2009 No Recipient  
2010 No Recipient-Spring Awards  
2011 No Recipient

#### **Thomas H. Lane Science Education Award**

2009 Ian Harrier  
2010 No Recipient  
2011 No Recipient

*Gina Malczewski, Chair / Kids & Chemistry*

## **"On the Road" With Outreach!**

**C**huck and Barb Roth assisted Gina Malczewski with a "Bringing *Pure Michigan Science* to Life in the Classroom" presentation on March 8 at the Michigan Science Teacher Association Meeting in Lansing. We have revised our program manual; this specific presentation also included a few extra activities around water to fit the "Pure Michigan Science" theme. Response was very positive.

Joan McMahon, Sue Perz, Jeff Seiferly and Gina Malczewski represented the Midland Section at Pittcon's Science Week in Orlando FL. Two teacher training sessions (Bringing Science to Life) were held on Saturday and Sunday (March 10 and 11) for more than 25 teachers each day; the participants ranged from elementary to college

teachers and resource personnel.

Over 530 students shared our "Passion for Polymers" with hands-on activities Monday through Wednesday of the following week. The students worked in groups to perform three experiments involving natural polymers (starch and protein), putty from glue, and silicones.

Students and their teachers received silicone wrist bands, silicone putty, Dow Corning books on solar energy and chemistry careers, and ACS National Chemistry Week brochures. The Pittcon organizers were also so pleased with our programs that they invited us to offer TWO separate student activities next year. We were also interviewed for an article published for the "Pittcon Today" paper.

*Eva Li, Publicity Co-chair*

## **Karmen Asch Joins Publicity Team**

**A**my Tesolin-Gee and Eva Li, co-chairs of the Publicity Committee of the Midland Section ACS, are pleased to announce that Karmen Asch from Dow Corning Corporation has joined the Publicity Committee by volunteering her photography skills to help capture every "Kodak moment" of our events this year. Please join us in

welcoming Karmen onboard.

In the meantime, we are still recruiting additional people to be publicity team members. Enjoy doing public relations? Photography? Journalism? If so, there are many opportunities for you to help. If you are interested in finding out more, please contact us at [network@midlandacs.org](mailto:network@midlandacs.org).

*Justin Fair, Dept. of Chemistry,  
Indiana Univ. of Pennsylvania*

## **Survey Seeks Chemist Input**

**W**e are conducting an academic survey and need respondents from chemical industry. And... everyone has a chance to win an Apple iPad (Generation 3)! Feel free to pass this on to anyone who is a chemist in industry. We are looking for 300-500 respondents. Participation in this study will require approximately 15 minutes of your time.

The purpose of this study is to develop the undergraduate organic curriculum to better prepare our undergraduate students for entry level industrial positions through a more integrated laboratory approach. The goals of this survey are to 1) identify the most commonly used types of chemical techniques and chemical reactions used in industry today and 2) to identify general aspects of the chemical industry, from initial product identification through manufacturing, that students should be aware of prior to entering the job market.

The results of this survey will ensure that future developments in the organic chemistry curriculum satisfy current needs of industry, while at the same time, offer exposure to the core concepts that are fundamental to the chemical industrial processes.

If you are willing to participate, please visit the link below and select "I agree and give my consent for this survey" to continue on to the survey. Names provided for entrance into the Apple iPad drawing will only be used to contact the winner. No names will be used for research purposes. Thank you for your time.

Survey Link: [https://iup.qualtrics.com/SE/?SID=SV\\_afydYckvntvWXG](https://iup.qualtrics.com/SE/?SID=SV_afydYckvntvWXG)

For more information, contact:

Justin Fair  
Assistant Professor  
Department of Chemistry  
Indiana University of Pennsylvania  
975 Oakland Avenue  
Indiana, PA 15705  
(724)-357-4477 (Office)  
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[J.Fair@iup.edu](mailto:J.Fair@iup.edu)  
<http://www.thefairlab.com>

Amy Tesolin-Gee, Publicity Co-chair

## Senator Carl Levin to Speak at Tech-knowledge-y 2012

### Tech-knowledge-y 2012

Saturday, April 14, 2012

10AM–2PM

Delta College, Lecture Theater  
Room G-160

Parking lots G, H, and J

1961 Delta Rd.,

University Center, MI 48710

FREE ADMISSION

DOORS OPEN AT 9:45AM!

The Midland Section of the American Chemical Society and Delta College are pleased to offer *Tech-knowledge-y 2012*, a Science, Technology, Engineering and Math (STEM) career-oriented event on April 14, 2012 from 10AM–2PM at Delta College.

Anyone considering a STEM career should not miss this unique opportunity to learn about Science & Technology (S&T) career challenges, local job opportunities in the 21<sup>st</sup> century, and how to prepare for them. This event is free and open to all (keynote address and panel discussion are limited to the first 250 participants due to room size)!

*Tech-knowledge-y 2012* offers something for everyone.... High school students can gain insight on proceeding toward future STEM careers. College students—and mid-career adults alike—will find opportunities to hone science and technology job-hunting skills.

Adults considering career changes into science can learn how to retool and promote their skill sets. Experi-

enced STEM-educated professionals interested in the panel discussion or serving as mentors will also find value in participating. And if you're interested in self-employment, why not come and learn about S&T entrepreneurship?

Human Resource representatives from Dow, Dow Corning, and other companies will be present to provide information about career paths and preparation.

There will also be options for children who come with parents: special free science activities will be offered to those who pre-register, by age group (K–3<sup>rd</sup> grade, or 4<sup>th</sup> grade +). Please contact those mentioned below for further information. Pre-registration is open now through April 10, with limited seating available, so sign up now!

### SCHEDULE

9:45AM—Doors Open

10:00–10:30AM—Keynote Address  
by Senator Carl Levin:

*Why Balanced Deficit Reduction is  
Crucial to Technology Education*

*Robust science and math education is vital to American progress. Not only is it a key to our economic competitiveness, but it's important to all of human society—only if we continue to disseminate this knowledge will future generations continue making the kinds of technological advances that have made human life longer, healthier and more fulfilling. But science and math education, indeed education of all kinds, and all sorts of other efforts important to American society are endangered by a political reality: the need to reduce the federal budget deficit. Unless we make the proper*

*choices, we will cut deeply into our education system—including math and science. Doing so would drastically reduce our future potential.*

10:30AM–12:00 Noon—Panel discussion moderated by FM100.5/AM790 radio personality Dave Maurer, involving local business, academic, and political leaders discussing the state of careers in science and technology here in Michigan:

**Dr. Tom Lane**—VP of Instruction and Learning Services; Chief Academic Officer, Delta College.

**Veronica Horn**—State Government Relations Manager, Dow Corning.

**Deb Zellner**—Executive Director of the Isabella Bank Institute for Entrepreneurship, CMU.

**Deborah Huntley**—Dean of the College of Science, Engineering & Technology, SVSU.

**Lynn Bruchhof**—Vice President, MidMichigan Health.

**Eileen Weiser**—VP, State Board of Education; VP, Macomb Community College.

**Dr. David Bem**—Dow Chemical Global R&D Director.

**Ryan Howell**—HR Manager, Hemlock Semiconductor.

12:00–2:00PM—Training and Workshops including resume writing, computer skills, mentoring & networking, using social media for job searching, and mock interviews.

Contacts:

Gina Malczewski, 989-496-4158

gina.malczewski@dowcorning.com

Gavin Lu, 989-496-5512

g.lu@dowcorning.com

### Midland Section Board

## Seeking Nominations For ACS Fellows

The National ACS Fellows program is intended to recognize those ACS members who have provided leadership and excellence in their contributions to science, along with the enhancement of ACS programs through volunteerism. More information about this honor can be obtained online.

ACS Fellows are chosen at the National level and the Midland Section ACS can offer two nominees for

consideration. However, individuals can also provide nominations. Self-nominations are acceptable for consideration by the Midland Section to be one of the Section's two nominees, but they are not allowed for nomination directly to the National ACS (regulation N5 under Nomination Process in ACS Fellows Program Guidelines 2012, from the National ACS web site).

A detailed resume and at least one supporting letter are requested. Four

Local Section members are under consideration, and we are looking for additional nominees. Please forward additional names and relevant information, or additional nomination materials to Gina Malczewski (gina.malczewski@dowcorning.com) or to any other Midland Section ACS Officer or Board member no later than 5:00 PM, Monday, April 9 (nomination packets must be submitted to National by April 23).

Eva Li, Publicity Co-chair

## Art and Science of Cooking Draws Crowd

**C**hef Aaron Gaertner of Shari's, along with Dow Corning scientist Gina Malczewski, made it 3 for 3—a successful third presentation of "The Art and Science of Modern Cooking!"

On the evening of February 4, 2012 at the Midland Center for the Arts, Chef Aaron demonstrated how to make better salad dressings through emulsification and tasty carbonated jam with gluten-free cookies. He also demonstrated three different ways to use ice cream base, the first two in-

involved using dry ice with liquid nitrogen (no mixing) or liquid nitrogen alone (lots of mixing) to create different "crystal sizes" of ice cream. To everyone's surprise, the third method created a treat that was hot at the beginning and melted as temperature dropped.

Chef Aaron coordinated with Gina to reveal the scientific mystery of cooking to the "standing room only" crowd. More than 150 people, from kindergarten to retirees, witnessed the influence of chemistry on the taste and texture of food.

There were more people than anticipated and our Section would like to apologize for any inconvenience to those who could not find a seat. Chef Aaron wants to do another series, and we will make better arrangements in the fu-



Curiosity abounds at "The Art and Science of Cooking" demonstration.

Photo by Eva Li.



Chef Aaron prepares carbonated jam.

Photo by Karmen Asch.

ture. We are also grateful for the patience of those who stayed.

We welcome any feedback on the event; please send your comments to [network@midlandacs.org](mailto:network@midlandacs.org). If you would like notifications of future events, please follow us on Twitter @MidlandACS or our Facebook page "The Midland Section of the American Chemical Society."

Eva Li, Publicity Co-chair

## Meet 'N Munch Introduces Section to New Hires

**T**he lunch "recruitment" session sponsored by Midland ACS at Dow Corning was held on Feb. 9, 2012 inside the DC-40 building. The promotion was targeted at Dow Corning's recently-hired young professionals. The event was kicked-off by our Section chair, Gina Malczewski, who introduced the ACS mission, recent activities and membership eligibility.

She also delivered a supportive message from Dow Corning's Chief Technology Officer, Gregg Zank, that joining ACS is a great way for chemists and scientists to grow professionally and to "give back."

Our Section has also won many awards at the National level for its activities, and Lisa Thackery provided some examples of volunteer opportunities for individual leadership development. Jeff Seifferly, chair of the Mid-Michigan Technicians Group (MMTG)

—a group affiliated with the Midland ACS—also talked about the mission of MMTG, exciting volunteer and mentoring opportunities, and group networking and learning events that are available throughout the year. Participants felt the lunch session was a helpful opportunity for them to learn more about the Society and a convenient method to receive information about upcoming volunteer opportunities.

If you are passionate about science, were unable to attend, or want to find out more about what our Section does year-round, please contact Gavin Lu (g-

lu@alumni.northwestern.edu), Sue Perz ([sue.perz@dowcorning.com](mailto:sue.perz@dowcorning.com)) or visit our website at [www.midlandacs.org](http://www.midlandacs.org) for more information. Thanks to the Program Committee (Sue, Gavin, Wayne and Gina) for planning this opportunity. An analogous event is being planned for Dow in the near future.



Chair, Gina Malczewski, speaks to new hires at the February Meet 'N Munch held at Dow Corning. Photo by Karmen Asch.



## Midland Section Publicity and Awards Committees

## Falender Receives Top Midland Section Award

**D**r. James R. Falender received the Midland Section Award for Outstanding Achievement and Promotion of the Chemical Sciences for 2011. Dr. Falender had an outstanding career as a chemical engineer and a research manager, rising to Vice President of several areas at Dow Corning Corporation.

Since retiring from Dow Corning in 2001 he has been a faculty member in the Department of Chemistry at Central Michigan University, where he served as Department Chair for two years. He is one of the rare scientists who rose to a high position in industrial science and then continued to contribute in the science education of students at the university level.

Dr. Falender joined Dow Corning in 1965 after receiving a B.S. in Chemical Engineering from MIT and received a Ph.D. in Material Science and Engineering from Rensselaer Polytechnic Institute in 1971. After holding various positions in research, product development, and process engineering, he was named Vice President and Director of Science and Technology for Europe in 1992, followed by Vice President and Executive Director of Health and Environmental Safety in 1997. In 1999 he was named Vice President and Executive Director of Science and Technology on a global basis.

He attended executive programs at INSEAD Advanced (INstitut Européen d'ADministration des Affaires or European Institute of Business in France) and Kellogg Advanced Executive Program (Northwestern University) and was a past adjunct professor in materials science and engineering/chemical engineering at the University of Michigan. He was a

member of the Industrial Research Institute, the Conference Board's International Council on Management of Innovation and Technology, and the University of Michigan's Materials Science and Engineering Industrial Advisory Committee. He holds several patents in the areas of silicone-modified organics, polymerization processes, and elastomeric products.

Not only is he an extremely talented scientific professional, he was a valued and respected manager by his Dow Corning peers and management team during his career at Dow Corning. His leadership spanned across a range of technologies and products. Most of these touched on the discipline of materials science which, within a specialty chemical company, provided him with a different view of Dow Corning's science and enabled him to make significant impacts in the science, technology, and product portfolios of the company.

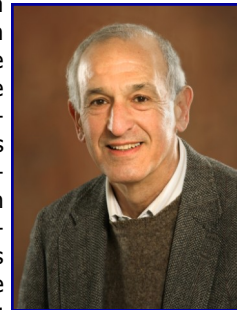
He was involved in starting Dow Corning's Interface and Computational Expertise Centers, which yielded a tremendous amount of critical insight into how the company's products work, especially in the areas of personal and household care, construction and other major segments. Knowing how the company's products work allowed it to develop new materials optimized for specific benefits with the added value of claim substantiation data for the customer. His expertise helped put Dow Corning on an exciting growth path.

It is no surprise that Dr. Falender has remained active in his field of expertise since retiring from Dow Corning. He is currently a faculty member at Central Michigan University with his teaching emphasis in general chemistry and materials science.

He was a strong force in pushing for the creation of the Science of Advanced Materials (SAM) Ph.D. Program at CMU. In addition to attending countless meetings of the SAM organizing committee, he actively worked from his position as Chemistry Department Chair to lobby for the program's creation. He contributed not only his considerable management skills in this effort, but also contributed creative ideas on how the curriculum should be structured to best align with the needs of industry.

As a member of the SAM faculty at CMU, he has taught a graduate level course in materials, serves on their curriculum committee, is a member of the rheology research group, and serves on their external review board. He remains a strong advocate for the program, helping CMU make the dream of an active Ph.D. program a reality.

During the past ten years he has taught in CMU's popular Armchair Chemistry class, a course designed as an introduction to chemical science for non-majors. He has also taught in the Introductory Chemistry Laboratory course, another course for non-majors. His contributions in these courses are significant because many of these students have little interest in chemistry and take the classes simply to meet requirements. Special teaching skills are required to hold their interest and generate enthusiasm.



*James Falender. Photo provided by CMU.*

### Janice Tomasik, Chemistry Olympiad Chair

## Opportunities to Help With Chemistry Olympiad

**P**lease contact Janice Tomasik if you are interested in helping with this year's Chemistry Olympiad.

Tasks for which help is still needed include: printing certificates for all of the local competition participants, and mailing these to local teachers; co-proctoring the national competition on April 21 at Central Michigan

University; presenting awards to the local competition winners at the Local Section's awards night; and submitting reimbursement from the Local Section for costs accrued.

Help is also needed to write the Chemistry Olympiad annual report for the Midland Section.

None of these tasks are particularly difficult, and lots of them will be fun—especially co-proctoring the competition and meeting the talented and wonderful students who will compete at the national level!

If interested, please contact Janice at [tomas1jh@cmich.edu](mailto:tomas1jh@cmich.edu).

Wendell Dilling, Director and Historian

## In Past Issues of *The Midland Chemist*

### 40 Years Ago This Month

In *E. B. Baker Receives Chemical Instrumentation Award* by Lee M. Huber: "At the ACS meeting in Boston, on April 10, 1972, Dr. Edward B. Baker received the 1972 ACS Award in Chemical Instrumentation sponsored by Sargent-Welch Scientific Company. This award was made in recognition of Dr. Baker's outstanding research in instrumental techniques especially in the field of nuclear magnetic resonance (NMR). He is a nationally recognized leader in development of new instrumentation which has allowed NMR to become a useful and practical analytical tool for the chemist."

### 30 Years Ago This Month

In *Program Previews of the Organosilicon Symposium*: "Planning continues for the XVI Organosilicon Symposium and the program is now complete,

with 40 oral papers and 14 poster presentations. The Program will include lectures by nine of the previous Kipping Award winners, as well as one by the year's winner, Professor Tom Barton of Iowa State University. Six of the previous winners, who are not lecturing, will serve as moderators for the six sessions of the Symposium, which will run from June 16-18, 1982" (concurrent with the 14th Central Regional ACS Meeting hosted by the Midland Section)."

### 20 Years Ago This Month

In *Nominations Solicited for Science Education Awards* by Mike Paquette: "Each year, the Midland Section of the American Chemical Society sponsors two awards which recognize outstanding achievement in the teaching of high school and college chemistry. This year, the Section has instituted

two new awards for educators, recognizing the importance of science education in the elementary and middle level years. Recipients for all four awards will be selected by the awards committee on the basis of their record for motivating, stimulating and encouraging an awareness and understanding of science (elementary and middle schools) or chemistry (high school and college)."

### 10 Years Ago This Month

In *MMI Announces Turner Alfrey Visiting Professor/Course* by Steve Keinath: "Professor Roderic P. Quirk, Kumho Professor and Distinguished Professor of Polymer Science, The University of Akron, is the 2002 Turner Alfrey Visiting Professor at Michigan Molecular Institute. Professor Quirk will offer a course on "Frontiers in Anionic Polymerization."



## The Midland Section of the American Chemical Society

presents

Dr. Pete Ludovice:

### *"Lab Coats & Other Fashion Statements: The Lighter Side of the Chemical Sciences"*

at the

### 21<sup>st</sup> Annual ACS Awards Banquet, May 3<sup>rd</sup>, 2012.



Pete Ludovice

A PhD from MIT and over a decade of teaching engineers at Georgia Tech gives Pete a truly unique perspective on the humor of science and technology. Pete also produces and hosts a weekly radio show on WREK-Atlanta whose motto is "Science, only funnier" (see [www.insidetheblackbox.org](http://www.insidetheblackbox.org)). If you're a nerd, or have ever met one, Pete will leave you convinced that engineers can truly be funny and not just funny-looking.

*"The talk was not only hilarious for the chemists in the audience, but also for the audience members with little or no chemical background."*

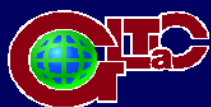
— K.S. Chemistry Instructor

Please join us at the **Great Hall Banquet & Convention Center in Midland** as we **recognize local students, teachers, and chemists!**

Event begins at 6:00 pm. **Public welcome.**

Please contact Diana Deese at [awards@midlandacs.org](mailto:awards@midlandacs.org) for information and tickets (\$13.00 per person)





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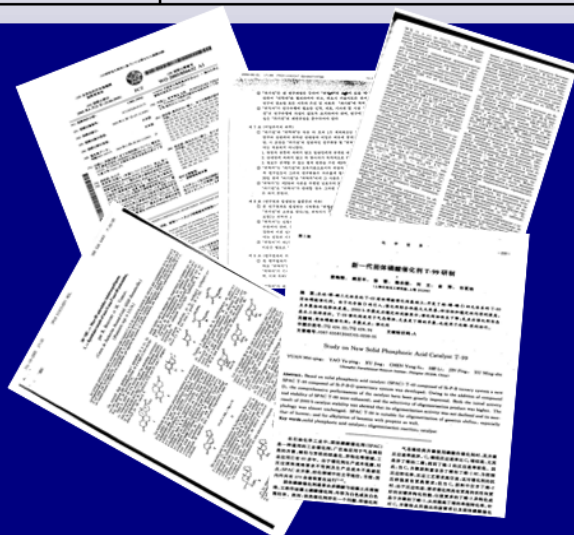
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