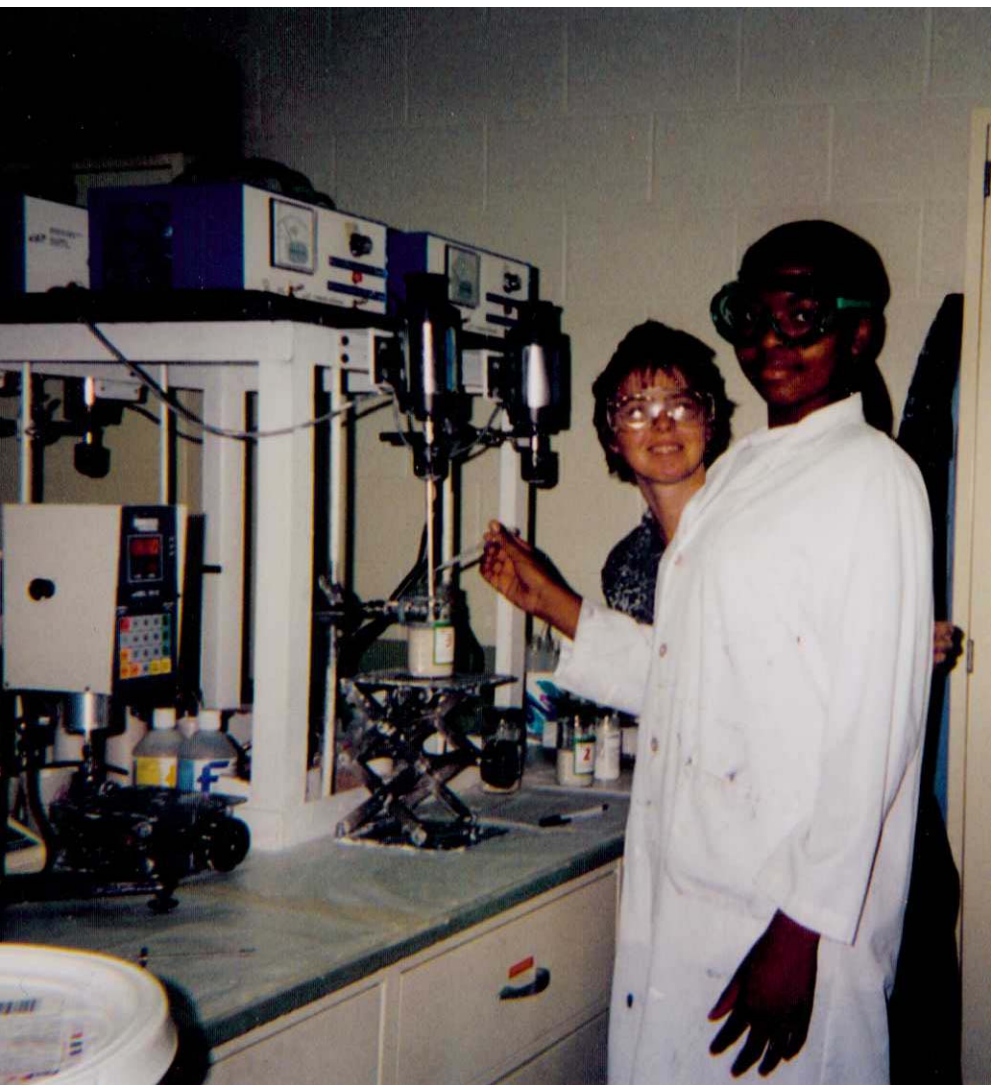




## Project SEED opens the world of chemistry for selected high school students, p. 3



Sandrena Hall spent her summer last year working with Joann Surma at The Dow Chemical Company. SEED students conduct their own research projects and find out exactly what real-world scientists are doing.

# THE MIDLAND CHEMIST

Volume 37, Number 2

April 2000

## *In this issue...*

Chairman's Column: Midland Section Member Meetings Are for Everyone—Learn and Enjoy! .....	1
Project SEED: Mentoring Now Can Mean Success Later .....	3
Great Gift Idea .....	6
MIT Professor Plans Lectures and Dinner Presentation .....	7
ACS Midland Section Committee Members .....	9
Dow Corning and ACS Present 33rd Organosilicon Symposium .....	12
Mid-Michigan Technician Group Offers Help with Stress .....	13
Spotlight on a New Midland Section Member .....	14
New Midland Section Members .....	14
Spring Science Education Recognition Dinner .....	15
Central Regional Meeting Just Around the Corner .....	16
To Readers of <i>The Midland Chemist</i> .....	17
ChemPuzzler .....	17
Important Dates on the ACS Midland Section Calendar .....	Back cover

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

American Chemical Society

Midland Section

PO Box 2695

Midland, MI 48641-2695

[http://www.cst.cmich.edu/org/acs\\_midsec](http://www.cst.cmich.edu/org/acs_midsec)

### **Volunteer Staff**

Ann F. Birch ..... Editor

517-832-7485

[ann.birch@editech-mi.com](mailto:ann.birch@editech-mi.com)

Vicki Sible ..... Coordinator

Dave Baker ..... Writer

Kerry Pacholke ..... Advertising

Scott Reeves ..... Photography

James R. Birch ..... Layout design

© Copyright 2000 Midland Section of the American Chemical Society

Please submit all articles and photographs to the editor, Ann Birch. Instructions for article submission are on the Midland Section web site, as is contact information for other staff members. Authors can also contact Ann directly with any questions.

Neither *The Midland Chemist*, nor the Midland Section, nor the American Chemical Society assumes any responsibility for the statements and opinions advanced by contributors of or to *The Midland Chemist*.

Contributors to this issue: Peggy Hill, Central Michigan University; Wendell Dilling, Central Michigan University; Tina Leaym, Dow Corning Corporation, Connie Murphy, The Dow Chemical Company; and Marcia Dilling. Chairman photo by Peggy Brisbane.

---

*Chairman's Column*

## Midland Section Member Meetings Are for Everyone—Learn and Enjoy!

**W**ould you like the Midland Section to have an active lecture or seminar program? With a dinner accompanying the program? Some of you indicated in the recently completed “all member” interest survey that you would like more Section meetings or gatherings where socializing and networking could be done in addition to hearing about new chemistry and technology.

During 1996 to 1998 the only meetings of this type the Section provided were Fall Scientific Meetings (FSM), Spring Science Education Recognition (SSER) Dinners, and Joint Detroit-Midland Sections meetings. I'm not counting Section Board of Directors meetings as member meetings, although they are open to all members. Few members attended the Joint Detroit-Midland meetings; those were held in Frankenmuth (1997) or Flint (1998 and 1999) and were organized mainly by the Detroit Section. The Frankenmuth meeting attracted about twelve Midland Section members whereas the Flint meetings attracted only three or four members each year. Attendance by Detroit Section members was in the range of twenty persons each year. Their Section has about twice as many members as the Midland Section.

In the 1960s the Midland Section held a member meeting with a visiting speaker about once a month, occasionally with a dinner. Although I don't remember exact numbers, my impression was that the attendance was usually fairly good. In recent decades, attendance at these types of meetings generally dwindled, and in the 1990s, on at least one occasion, the attendance was embarrassingly low. As a result, the Program Committees became reluctant to schedule such meetings. Some local corporations, academic institutions, and other organizations had their own seminar and lecture programs, perhaps obviating the need for ACS programs. Members also seemed to be busier with less time for ACS meetings.

However, as Program Chairman this past year I had occasion to review the attendance figures for Section member meetings from 1989 to 1998. This review showed that of the 16 non-FSM, non-SSER meetings from 1989 to 1995, only one had an attendance less than 10. Six meetings had an attendance of 13 to 20, six had 25 to 40, and three had 70 to 95. In my



Wendell Dilling, Chair  
ACS Midland Section

opinion, although some of these attendance figures are not great, they are not so poor that they should have warranted a nearly complete shutdown of the member meeting program.

Because some of you indicated a renewed interest in programs and gatherings described above, last year's Program Committee offered a modest program series by scheduling two meetings in the latter part of 1999. The first was an ACS Tour Speaker in September at Central Michigan University followed by dinner at The Embers. The second was a presentation in November by Congressman Vernon Ehlers, Vice-Chairman of the House Science Committee, at a dinner in Midland. Attendance at these meetings was reasonable: 65 at CMU (mostly students and only a few members, 9 at the dinner) and 36 at the meeting with Congressman Ehlers.

The Program Committee for 2000 is continuing the trend in 1999 of planning approximately one meeting per quarter. These meetings will be an excellent opportunity to network and socialize with your ACS colleagues from other (and your own) companies and institutions. Hope to see you there.

Wendell L. Dilling

## FOR HOW MANY MINUTES . . .

...would you feel comfortable discussing with your neighbor or friends the global chemical industry initiative known as *Responsible Care*?

If you are a member of the chemical industry, we urge you to learn about this initiative, which calls on chemical companies to demonstrate their commitment to improve all aspects of performance that relate to the protection of health, safety, and the environment.



Responsible Care®  
A Public Commitment

DOW CORNING

*Project SEED***Mentoring Now Can Mean Success Later***By Peggy Hill*

**P**roject SEED is a terrific educational program that enables high school students to spend a summer as full-time research scientists working in an industrial or academic chemistry lab. The participants must have finished their junior or senior year of high school and have at least one year of high school chemistry. Many high school science students are hesitant about considering a scientific career because they don't know what such a career entails. This program is aimed at those students who show potential for success in science, but who may not have considered science because of a lack of exposure to the working science world. School guidance counselors and high school chemistry teachers observe these students and encourage them to apply for the SEED positions. Some students do come with very definite career goals, while others are undecided about their future career. All, though, are enthusiastic, with a high level of interest in science.

The students' stipends are paid by funds from the national project SEED office and funds from the Midland Section of ACS. Central Michigan University helps provide support by paying registration and tuition fees so that the students can earn college credit for their work. A preceptor is a chemist who hosts a SEED student in their research lab, providing his or her student with a research topic, day-to-day supervision, encouragement, and mentoring. Preceptors are not paid for their efforts; they are volunteers.



*Annabelle Brooks and preceptor Ajit Sharma review research results at Ajit's CMU lab. Annabelle was featured in a recent issue of Chemistry magazine. She received a Project SEED college scholarship and was accepted into the Undergraduate Research Opportunity program at the University of Michigan.*

*Photo: Peggy Brisbane*

According to National ACS, the scope of Project SEED includes:

- 31 years of summer programs
- 5500 student participants
- 60% of participants are female
- 70% of participants are from underrepresented minority groups
- 60% of surveyed participants were interested in pursuing a career in chemistry or a related field

Last summer two SEED I students and one SEED II student spent 8 to 10 weeks working full-time on research projects under the guidance of preceptors at Central Michigan University, The Dow Chemical Company, and Dow Corning Corporation.

At the end of the summer all SEED students participated in a one-day meeting in Midland at the Holiday Inn Convention Center. The day's activities included a seminar in which each student presented a 15- to 20-minute oral presentation of their work, and lunch at the Ashman Court Hotel in Midland. The SEED I students each presented their own poster at the October 30 meeting of the Midland Section of the American Chemical Society. Here are the summaries of their posters:

### **Surface Property and Aqueous Phase Behavior of Two Silicone Polyethers**

LeKeisha Hibbler (SEED I) and Zuchen Lin  
Dow Corning Corporation

Two silicone polyethers with similar surfactant parameters but different molecular weights were synthesized by a hydrosilylation method. Surface



tension vs. surfactant concentration plots (Gibbs plot) were generated to study their surface properties. It was found that both surfactants lowered surface tension to about 25 dyn/cm<sup>2</sup>. However, the solubilities of the two differed. Aqueous phase behavior study showed that both surfactants form dispersions of lamellar liquid-crystalline phase in water (vesicles) at low (<40

*LeKeisha Hibbler and preceptor Zuchen Lin present a poster of their research. LeKeisha would like to return for a second summer, and she will be applying for college in a scientific field.*

*Photo: Peggy Hill*

wt%) surfactant concentrations. At higher concentrations, lamellar liquid-crystalline phases form for both surfactants. The details of phase behavior were discussed.

### **Inhibition of Protein Aggregation by Cyclodextrins**

Annabelle Brooks (SEED II) and Ajit Sharma

Department of Chemistry, Central Michigan University

Protein aggregation is a common occurrence that poses many practical problems in the manufacture, handling, and storage of proteins. The production of recombinant proteins often involves a folding step which is hampered by protein aggregation. Storage of protein pharmaceuticals sometimes results in aggregation thus decreasing the bioavailability of the active protein drug.

In the clinical setting, serum samples with high immunoglobulin M levels tend to aggregate during analysis, resulting in erroneous laboratory results. One approach to this problem is the use of a class of macrocyclic sugar additives known as cyclodextrins. The effect of cyclodextrins with different chemistries such as charge, ring size, and molecular weight on the aggregation of hemoglobin, amylase, albumin, and immunoglobulin M was presented. Interaction of cyclodextrins and proteins was evaluated by ultraviolet spectroscopy and electrophoresis.

### **Alkali Swellable Latex Method Validation and Metered Size Press Database Optimization**

Sandrena Hall (SEED I) and Joann Surma

The Dow Chemical Company

The objective of the alkali swellable latex (ASL) project was to determine the reproducibility of a method that assesses ASL viscosity response over a wide pH range. Three different ASL latexes were used to establish the precision of the method. Output from the methods and the statistical analysis of the data were covered. The metered size press



*Sandrena Hall and preceptor Joann Surma explain their SEED research project. Sandrena hopes to participate in SEED again this summer and plans to attend college to study a scientific field. Photo: Peggy Hill*

database optimization project involved clean up and updating of data used in a searchable Access database. Data format was standardized and content of the database was updated to include present information. A demonstration of the database was available for review.

Would you like to become a preceptor or assist with Project SEED in other ways? Find out more about the program from <http://www.acs.org/education/student/projectseed.html> or contact Peggy Hill at [m.r.hill@cmich.edu](mailto:m.r.hill@cmich.edu).

---

## Great Gift Idea

*By Tina Leaym*

**H**ere's something for teachers, new parents, or birthday party activities. Or buy it for kids and grandkids: *The Ultimate Book of Kid Concoctions: More Than 65 Wacky, Wild & Crazy Concoctions* by John E. Thomas, Danita Pagel, ISBN 0966108809, list price \$14.95 (discounted on the Web).

The book contains recipes for sidewalk chalk, lip-gloss, snow paints, and more than 60 other cool things!

A black rectangular background containing a white diamond shape. Inside the diamond, the text reads: "Dow is proud to support the American Chemical Society. What Good Thinking Can Do." Below this text is the Dow logo, which consists of a black diamond with the word "DOW" in white capital letters. At the bottom of the diamond, the website "www.dow.com" is written in white. In the bottom left corner of the black background, there is small white text: "©2000 The Dow Chemical Company" and "\*Trademark of The Dow Chemical Company".

Dow is  
proud to support the  
American Chemical Society.  
What Good Thinking Can Do.  
**DOW**  
www.dow.com

©2000 The Dow Chemical Company  
\*Trademark of The Dow Chemical Company



## MIT Professor Plans Lectures and Dinner Presentation

**D**r. Edwin (Ned) Thomas of MIT will give a series of lectures on polymer morphology as the Turner Alfrey Visiting Professor at the Michigan Molecular Institute from May 15 to 19. Dr. Thomas will also give a dinner presentation May 16 during a joint meeting of the Midland Section of ACS and the Mid-Michigan Section of SPE. The Midland Section of ACS and the Mid-Michigan Section of SPE are among the sponsors of Dr. Thomas's visit.

Dr. Thomas is the Morris Cohen Professor of Materials Science and Engineering at MIT. He has been at MIT since 1989, and was at the University of Massachusetts from 1982 to 1989. He received his B.S. in mechanical engineering and engineering science from the University of Massachusetts in 1969 and his Ph.D. in materials science from Cornell University in 1974. Professor Thomas's honors and awards include the Special Creativity Award of the National Science Foundation (1996 and 1988), the High Polymer Physics Prize of the American Physical Society, the American Chemical Society Creative Polymer Chemist Award in 1985, and Fellow of APS, 1986. More information can be found on Professor Thomas's MIT web site at: <http://www-dmse.mit.edu/people/faculty/elt/>.

Registration information for the lecture series and the dinner presentation is given below:

### Lectures on Polymer Morphology

**Course number:** 1027

**Credit hours:** 1

**Dates/times:** Monday-Friday, May 15-19, 3:00 -6:00 p.m.

**Credit/audit:** Auditors register directly through MMI. MMI courses may also be taken for credit through Central Michigan University, Michigan Technological University, and Saginaw Valley State University. To receive credit, first matriculate with your cognizant educational institution. For further information, contact your graduate advisor. It is recommended for every hour of lecture time, approximately three hours of study will be needed to develop proficiency in the subject.

**Registration:** At least one week in advance of the course date. Call 517-832-5555 ext. 0 for forms.

**Course fee:** \$250 for each credit hour. Those students taking the course for credit pay the appropriate graduate credit hour rate from their institution.

**Turner Alfrey Professorship:** There is no course fee for auditors taking

MMI course 1027 if they are members of organizations participating in the Turner Alfrey Visiting Professorship Program (Dow Chemical, Dow Corning, Saginaw Valley State University, Central Michigan University, Michigan State University, the Midland Section of ACS, and the Mid-Michigan Section of SPE). For all others, the regular course fee of \$250 will be required at the time of registration. **All participants must register.**

### **Dinner Presentation**

**Title:** “Hi-tech Developments Utilizing Block Copolymers”

**Synopsis:** Drawing on his broad areas of interest including polymer engineering, the effects of processing on polymer microstructures, and the optical properties of block copolymers; Dr. Thomas will highlight some recent hi-tech developments that utilize block copolymers.

**Location:** Ashman Court Hotel, Meeting room 8-9. The Ashman Court Hotel is located in downtown Midland, at 111 W. Main (the corner of Main and Ashman streets). Telephone: 517-839-0500.

**Dates/Times:** Tuesday, May 16  
6:00 p.m. Social  
6:30 p.m. Dinner  
7:30 p.m. Program

**Reservations:** Reservations can be made using the form below via telephone (Ms. Burris Ghoston, Dow Chemical, 517-636-3979), fax (Ms. Burris Ghoston, Dow Chemical, 517-638-1684), or e-mail (Russ Peters, [rbpetersjr@dow.com](mailto:rbpetersjr@dow.com)). Reservations must be received by 12:00 noon on Tuesday, May 9<sup>th</sup>.

- \$20.00 for all SPE & ACS members with reservations
- \$ 8.00 for SPE & ACS student members with reservations
- \$11.00 for all other students with reservations
- \$23.00 for all others—nonmembers and any without reservations

### **ACS/SPE Meeting Registration Information**

Name of attendee \_\_\_\_\_

Company/affiliation \_\_\_\_\_

Telephone \_\_\_\_\_

ACS member? Y N      ACS student member? Y N

SPE member? Y N      SPE student member? Y N

# ACS Midland Section Committee Members

*By Wendell Dilling*

Carrying out the varied activities of the Midland Section requires the work of many members. In appreciation of their efforts, we are listing their names in this issue of *The Midland Chemist*. If you have questions regarding Section activities, please contact any committee chair. Their phone numbers, addresses, and e-mails are listed on the Leaders page of the Midland Section web site. If you are interested in helping with any of these activities, please contact the committee chair or the Section Chair [631-1621 (h), 774-3955 (o), wendell.l.dilling@cmich.edu].

## Committees on Internal Matters

### Executive

Wendell L. Dilling, Chair

Debora F. Bergstrom

Ann F. Birch

Tina M. Leaym

George W. Eastland, Vice-Chair

Connie J. Murphy

Peter C. Qian

Philip J. Squatrito

### Membership Growth and Retention

Connie J. Murphy, Chair

Joann E. Surma, Database Mgr.

### Long-Range Planning

Debora F. Bergstrom, Chair

### Historian

Wendell L. Dilling, Historian

Robert E. Kohrman, Assistant

### Corporate Agent

Patricia Dreyfuss, Corporate Agent

## Committees on Communications

### *The Midland Chemist*

Ann F. Birch, Editor

Kerry Pacholke, Ad Coor.

Vicki Sible, Publishing Coor.

Dave Baker, Writer

Scott Reeves, Photo Coor.

### Web Site

Lang Xu, Webmaster

### Publicity/Public Relations

Kermit Kwan, Chair

Chitra Subramaniam, Vice-Chair

Dick Van Effen

### Government Affairs

Walter E. Rupprecht, Chair

Deb Bergstrom, Vice-Chair

### Technical Society Interface

Eldon L. Graham, Chair

Elizabeth McQuiston, Vice-Chair

Dick Van Effen

Environmental Affairs (Joint with AIChE)

John D. Oleson, Chair	Victor Atiemo-Obeng, Vice-Chair
Bob Bailey	Robert Hotchkiss
Deb Bergstrom	Ted Skinner
Vern Fauver	

**Committees on Member Assistance and Recognition**

Careers and Professional Relations

Sarah S. Snow, Chair	Don Miller, Vice-Chair
Andrea Wetmore	

Awards

Philip J. Squattrito, Chair	Sue Perz, Vice-Chair
Anton Jensen	Janet Smith

**Committees on Member Programs and Activities**

Program

George W. Eastland, Chair	Estelle Lebeau
Eldon Graham	Anil Saxena
Anton Jensen	John Warriner
Eric Joffre	

Fall Scientific Meeting

Fredrick W. Vance, General Chair  
Dean Millar, Program Chair  
Andrew Wood, Facilities Chair  
Pete Dreyfuss, Registration Chair  
Don Miller, Keynote Chair and ACS Workshop  
Sarah Snow, ACS Workshop  
Dave Karpovich, Symposium Chair  
Eric Joffre, Symposium Chair  
Charles Roberts

Industry Relations

Jerry D. DeVrieze, Chair	Anil Saxena
Gary Buske	

**Committees on Public Education and Student Programs**

National Chemistry Week

Gretchen S. Kohl, Chair	Todd Hogan
John Blizzard	Joan Sabourin
Julie Eaton	Marvin Tegen

Chemistry Olympiad

Edmund W. Benson, Chair	Estelle Lebeau
Dave Baker	Richard Moreau

Sci-Fest

David L. Stickles, Chair  
 Dick Anderson  
 Stephanie Anderson  
 Tina Leaym  
 Wendy Mallory

Debbie Milbrandt  
 Brian Murdoch  
 Connie Murphy  
 Joan Sabourin  
 Janet Smith

County Fair Booth

Brian Murdoch, Chair

Project Science Literacy

John Blizzard, Chair  
 Dave Baker  
 Karol Childs  
 Drew Colenrander  
 Claudia Douglass  
 Julie Eaton  
 Mike Ferrito  
 Todd Hogan  
 Gretchen Kohl

Marvin Tegen, Vice-Chair  
 Joan McMahon  
 Paul Popa  
 Chuck Roth  
 Joan Sabourin  
 Cheryl Schultz  
 Richard Skochdopole  
 Janet Smith

Project SEED

Margaret A. Hill, Chair

Andrew Christ, Vice-Chair

Minority Affairs

Linneaus C. Dorman, Chair  
 Joan Sabourin, Consultant  
 Wanda Stringfield, Consultant  
 Jennifer Little, Liaison (NOBCChE)  
 Peggy Hill, Liaison (Project SEED Committee)

Forest Busby  
 Mike Garlick  
 Charles Infante

**Affiliate Group**

Mid-Michigan Technicians Group

Janet M. Smith, Chair  
 Phyllis Anderson, Chair-Elect  
 Cathy Curtis, Secretary  
 Karen Balwinski, Treasurer  
 Kerry Pacholke, Elected Delegate  
 Dave Stickles, Elected Delegate  
 Debbie Milbrandt, Director (1st term)  
 Sue Perz, Director (1st term)  
 Tina Leaym, Director (2nd term)  
 Rebecca Hall, Director (2nd term)

## Dow Corning and ACS Present 33rd Organosilicon Symposium

**Y**ou and your colleagues are invited to attend the 33rd Organosilicon Symposium to be held April 7–8, 2000, in Saginaw, Michigan. This symposium is held annually and is international in scope. Scientific sessions are chosen to be of interest to both industrial and academic chemists and include invited lectures, contributed papers, and posters. This year's symposium will be held at Saginaw Valley State University. For more information, check the web site <http://www.sisymp.com/>

Also featured is the 33rd Organosilicon Symposium banquet and presentation, featuring Dr. John J. Fortman of Wright State University. Dr. Fortman will be showing "America's Funniest Chemical Videos: Dazzling Demos and Videotaped Bloopers."

The banquet and presentation are co-sponsored by the Organosilicon Symposium and the Midland Section of the ACS, and are open to all.

The banquet will be held Saturday, April 8<sup>th</sup>, in the second floor Curtiss Hall Banquet Rooms at Saginaw Valley State University. The banquet includes a cocktail hour from 6:30–7:30 p.m., followed by dinner and our after-dinner speaker. Banquet tickets may be purchased for \$30 each. Please make out checks to: 33rd Organosilicon Symposium. Ticket orders should be sent to:

Attn. Brenda Yaworski C042M2  
Dow Corning Corporation  
PO Box 994 2200 W Salzburg Rd  
Midland MI 48686-0994

Please enclose the form below with your ticket order. Those who order banquet tickets will receive a receipt through the mail. Preprinted name tags will be issued at the door. The original deadline for banquet tickets was March 22<sup>nd</sup>, but the deadline has been extended for readers of *The Midland Chemist* until **April 4**. Seating capacity, however, may be limited. For questions regarding banquet tickets or late reservations, call Brenda at 517-496-5496.

### 33rd Organosilicon Symposium Banquet, April 8, 2000

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Name of guest(s): \_\_\_\_\_

Number of tickets: \_\_\_\_\_ Amount enclosed: \_\_\_\_\_

## Mid-Michigan Technician Group Offers Help with Stress

By Tina Leaym

**S**tressed out? Other than hit the bottle, what can we do? “Modern” times have “progressed” to the point where we’re all under a lot of stress. Maybe it’s time to take care of it before it affects your health.

You now have some tools to work with if you attended MMTG’s February lunch seminar.

Zigmond Kozicki of Mid-Michigan Health talked to about 60 technicians, giving advice on handling the everyday assaults on your sanity. He emphasized coping strategies, controlling pressures with choices, and extinguishing daily fires.

If you need to talk with someone about stress or any other concerns, try confidential

Employee Assistance Services. Dow Corning employees can call 517-633-0580; Dow Chemical employees can call 517-636-3883. For a copy of Zigmond Kozicki’s slides, call MMTG Chair Janet Smith at 496-6860.

MMTG has several other activities planned for technicians, including a seminar for beginning investors and a microbrewery tour. MMTG is a local group affiliated with ACS that promotes the technician profession and serves the technician community.



*Zigmond Kozicki gave pointers on dealing with stress to Midland-area technicians in a recent MMTG seminar.*

*Photo: Brian Murdoch*



**IMPACT  
ANALYTICAL**

Formerly MMI

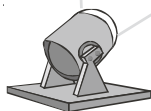
- **Competitive Analysis**
- **Unknown Identification**
- **Additive Analysis**
- **Taste & Odor Analysis**
- **Color Body Identification**

Contact: Andrew Wood • 517-832-5555 ext 563  
E-mail: [wood@impactanalytical.org](mailto:wood@impactanalytical.org)  
[www.impactanalytical.org](http://www.impactanalytical.org)

Spotlight on a New Midland Section Member

**Eric Hill now with Impact Analytical**

By Connie Murphy



**E**ric Hill received his bachelor's degree from the University of Michigan-Flint in May 1999. He did undergraduate work with Dr. James Ames focusing on synthesis of various strychnos alkaloid compounds. His first post-college employment was at the Akzo-Nobel paint company in Pontiac as a QC chemist. He worked there for four months, and then received an offer from Impact Analytical at MMI in Midland. He is currently a separations chemist there focusing on mass spectrometry.

Eric and his family reside in Frankenmuth. He has been happily married to Susan for 3.5 years. Sue teaches chemistry, biology, and physics at Heritage High School in Saginaw. Her eight-year-old son, Tyler, plays soccer, basketball, and baseball besides playing with his many neighborhood friends. Eric enjoys outdoor activities such as hunting, fishing, hiking, and camping. He plays basketball and softball and enjoys coaching Tyler in soccer.

**Why did you join the ACS and what do you expect from the local section?**

"I joined the ACS in May of '99 when I graduated from college. My main motivation to join was to keep up-to-date on the latest news in the chemical world. I enjoy the many ACS publications, including *C&E News*, and *Analytical Chemistry*. I expect my local section to keep me informed of local chemical interests, and to provide me with local contacts in the chemical community. I hope to become involved in the Midland Section on an administration level in the near future."

**New Midland Section Members**

By Connie Murphy

"Welcome!" to the following people who have either recently joined the American Chemical Society or transferred into the Midland Section:

- Chad M. Bannan
- Shawn Burgard
- Peter P. Chrapkiewicz
- Jennifer Ehlert
- Virginia M. Guerin
- Herschel H. Reese
- Jay D. Romic



# Spring Science Education Recognition Dinner

Wednesday, April 19, 2000

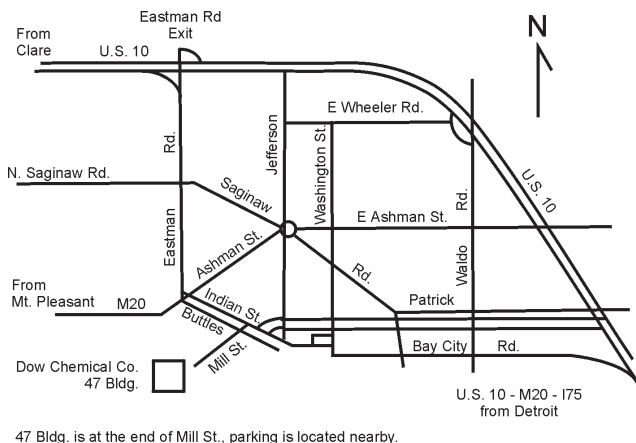
6:00 p.m. to 9:00 p.m.

47 Building Cafeteria, The Dow Chemical Company  
Midland, Michigan

- Program: 6:00 p.m. Mixer  
 6:30 p.m. Buffet Dinner  
 7:30 p.m. Program  
 8:00 p.m. Awards Presentations—Teachers and students will be recognized for their outstanding achievements in science education.

The cost of the dinner is \$14.00 per person and includes appetizers, dinner, dessert, and beverage. Please respond using the form below. Your reservation request must be received by April 7, 2000.

This event is sponsored by the Midland Section of the American Chemical Society and underwritten by grants from The Dow Chemical Company and Dow Corning Corporation. For further information, contact Phil Squattrito at 517-774-4407 or [p.squattrito@cmich.edu](mailto:p.squattrito@cmich.edu).



*To reserve a place at the 2000 Spring Science Education Recognition Dinner, return this form with payment by **April 7, 2000** to Phil Squattrito, Department of Chemistry, Central Michigan University, Mt. Pleasant MI 48859.*

Name(s): \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Phone/Email: \_\_\_\_\_ ACS member? Y N

Enclose payment of \$14.00 per person. Checks should be payable to "Midland Section ACS."

## Central Regional Meeting Just Around the Corner

**P**lan now to attend the 32nd Central Regional Meeting (CMACS 2000), to be held May 16–19 at the Northern Kentucky Convention Center in Covington (across the Ohio River from Cincinnati). The Cincinnati Section is host.

The advance registration form can be accessed from the meeting web site ([www.cmacs2000.org](http://www.cmacs2000.org)) or from the meeting program in the March 27 issue of *C&E News*.

The meeting will feature over 40 invited symposia, with topics including pharmaceutical analysis, antimicrobial agents, chemical education for the year 2000, new inorganic materials, molecular recognition, green processes, and nonlinear optical spectroscopy.

As part of a two-day symposium on chemical sensors, the CMACS 2000 Award in Chemical Sensors will be presented to Leland C. Clark, Jr., Professor Emeritus, University of Cincinnati. Sponsored by YSI, Inc., the award recognizes Prof. Clark's pioneering work.

The ACS Central Region will present four Industrial Innovation Awards (in the areas of polymers, pharmaceuticals, environmental chemistry, and chemical engineering) and one High School Chemistry Teaching Award at a special Awards Symposium and Banquet.

A program for undergraduates, entitled "From Classroom to Career," will feature a Graduate School Fair in which representatives from invited chemistry departments will participate, and a poster session for ACS Student Affiliates.

CS Career Services will hold a two-day Regional Employment Clearinghouse, conduct one-on-one résumé review sessions by appointment, and present three hour-long miniworkshops: "Targeting the Market," "Résumé Preparation," and "Interviewing Skills."

Three high-quality, reasonably priced short courses/workshops are scheduled for the Monday and/or Tuesday preceding the meeting:

- Laboratory Safety Workshop
- Analytical Organic Mass Spectrometry
- Organic Synthesis: Modern Methods & Strategies

Rounding out the meeting are a first-class vendor exhibit and several exciting social activities, including a riverboat dinner cruise on the Ohio, a tour of the Newport (KY) Aquarium, and Cincinnati Reds baseball.

We hope you'll participate in CMACS 2000 and help make it the best regional ACS meeting ever. Keep up to date via the meeting web site: [www.cmacs2000.org](http://www.cmacs2000.org)

## To Readers of *The Midland Chemist*

By Ann Birch

You'll notice that this is the "April" issue instead of the expected "March" issue. We have decided to revise our calendar for *The Midland Chemist* to make it easier to get each issue to you in a timely manner. Previous calendars have worked around major ACS events, which has often required issues to be published at different times of the month. In addition, the time it takes to get mail through corporate or university internal mail systems can be unpredictable, adding to delivery times.

Our goal is to get each scheduled issue to you by the first working day of the scheduled month, allowing some extra time for corporate and university mail systems. Be sure to check out *The Midland Chemist* as soon as it arrives—at times we get word of events that would be of interest to Midland Section members, but not a lot of lead time to publish them.

The Midland Section web site has the complete editorial calendar. Here's an abbreviated list of issue dates for 2000:

Issue	Copy deadline	Issue delivered
May, Vol. 37, No. 3	April 5	May 1
June, Vol. 37, No. 4	May 8	June 1
August, Vol. 37, No. 5	July 6	August 1
September, Vol. 37, No. 6	August 8	September 1
October, Vol. 37, No. 7	September 6	October 2
December, Vol. 37, No. 8	November 7	December 1

## ChemPuzzler

By Marcia Dilling

Here is a test of your puzzle-meister skills. We'll provide the solution in the next issue of *The Midland Chemist*.

### Across:

- plural of carbon
- elemental exclamation by four chemists
- bone element row
- yttrium quad

### Down:

- replicate
- trace
- C&EN article
- make another journal article

1	2	3	4
2			
3			
4			

## Important Dates on the ACS Midland Section Calendar

- April 3 Professor Michael Morris, "Raman Imaging: The New Look in Bones and Other Materials," CMU Seminar Series, Dow 175, 4:00 p.m., reception preceding in Dow 264 (Mary Tecklenburg, 517-774-3078)
- April 3 Midland Section board meeting, Delta College Midland Center, room 12, 7:00 p.m.
- April 5 Deadline for May issue of *The Midland Chemist*
- April 7–8 33<sup>rd</sup> Organosilicon Symposium, Saginaw Valley State University, <http://www.sisymp.com/>
- April 8 Banquet and presentation, 33<sup>rd</sup> Organosilicon Symposium, Saginaw Valley State University, 6:30 p.m. (Brenda Yaworski, 517-496-5496)
- April 10 Professor Valerie Sheares, "New Materials Via Nickel-Catalyzed Coupling Polymerization," CMU Seminar Series, Dow 175, 4:00 p.m., reception preceding in Dow 264 (Bob Howell, 517-774-3582)
- April 17 Professor William Risen, "Transparent Monolithic Transition Metal-containing Silica-Chitosan Polymer Aerogels: Formation, Structure, and Chemistry," CMU Seminar Series, Dow 175, 4:00 p.m., reception preceding in Dow 264 (SAACS, Phil Squatrito, 517-774-3582)
- April 19 Spring Science Education Recognition Dinner, Dow Chemical Cafeteria, 6:00–9:00 p.m.
- May 1 Midland Section board meeting, SVSU Curtiss Hall, room 203, 7:00 p.m.
- May 8 Deadline for June issue of *The Midland Chemist*
- May 15–19 Professor Edwin Thomas, "Lectures on Polymer Morphology," MMI Turney Alfrey Visiting Professor, MMI (517-832-5555, ext. 0)
- May 16–19 32<sup>nd</sup> Central Regional Meeting, Covington, KY ([www.cmacs2000.org](http://www.cmacs2000.org))
- May 16 Professor Edwin Thomas, "Hi-tech Developments Utilizing Block Copolymers," Ashman Court Hotel, Midland, 6:00 p.m. (Burriss Ghoston, 517-636-3979)

---

### AMERICAN CHEMICAL SOCIETY

P.O. Box 2695  
Midland, MI 48641-2695

<p><b>NONPROFIT</b> U.S. POSTAGE PAID Permit No. 91 Midland, Michigan</p>
---