

Announcing the "First 'n Worst" Monthly Competition

Your Detroit section is starting a competition, open to all subscribers. Spot a great use of chemistry in the media? Send it to jim.landis@gt.org as a "First" entry. If you win that month, we'll send you a prize. Find a horrible misuse of chemistry in the media and send it to jim.landis@gt.org also. If you win that month, we'll still send you a prize. For more details, see page 6.

2004 National Chemistry Week Celebration

National Chemistry Week runs from October 17 through October 23. The theme for this year's National Chemistry Week is "Health and Wellness." Our Detroit section will be setting up a program at Cranbrook Science Museum (See page 7 for a map) on Sunday, October 17 from noon to 4:00 PM. The student affiliate group from University of Detroit-Mercy will be putting on chemistry demonstrations in the museum auditorium. We will also have several hands-on experiments to show children how chemistry is involved in their bodies and the food they eat. Parents will also learn the benefits that chemistry has brought to their health. This program is a great way to educate the public and have a fun time, too.

Every year we recruit chemists and chemistry students from the Detroit area to volunteer their time. If you are interested in participating, please contact Denise Grimsley by phone at (734) 324-6539 or E-mail at grimsld@basf-corp.com.

**November Section Meeting:
Migley Award Presentation to Galen Fisher**
See Pages 16-18 for details

Great News from the Philadelphia National ACS Meeting

Our Detroit Section of the ACS was a finalist for 5 national awards:

- Outstanding Career Services Program**
- Outstanding Kids & Chemistry Program.**
- Outstanding High School Program**
- Outstanding NCW-Student Affiliate Program**
- Outstanding Local Section (medium size sections)**

and came out with the top award in two categories. We were selected as the top local section for Outstanding Career Services Program. This is a tribute to the great work that Megan Klein (Ash Stevens), our Career Programs Chair, has been doing - mostly by herself. Thanks Megan and Congratulations!

The second award was for Outstanding Kids & Chemistry Program. A lot of people contributed to our winning this award – particular thanks go to last year's five co-chairs (Denise Grimsley (BASF), Mary Kay Heidtke (Magni Ind.), Gina Ludwig (BASF), Felix Schneider (US FDA-ret'd) and Walter Siegl (Ford-ret'd, UofM-D) and of course all of the many volunteers who supported the various events throughout the year.



*Mary Kay Heidtke, Kids & Chemistry
Co-Chair*

Megan Klein, Career Program Chair

(Chemluminary Awards continued on page 7)

Project Seed (Detroit Section) Summer 2004

This year was the 13th year that Project SEED (Summer Educational Experience for Disadvantaged Students) has been structured by Keith Williams. This year's program was formatted to provide the participants with both the challenges and the rewards of advance research in chemistry as well as establish a foundation for the students to excel in this area of science at the college level. Six students from Detroit high schools were selected in this year's program. These students were selected from over 60 total applicants who were then cut down to a short list of 20 students who were all interviewed. Special thanks to the Detroit Professional Chapter of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCChE) for their assistance in the interviewing and in the selections' process of the students, below.

Student Name/High School	Preceptor/Location
Charles Bell Denby Project Title: Student Learning Assessment in an Urban Pre-College Residential Program	Keith Williams Wayne State University
Herman Bolden Chadsey Project Title: Attempted Synthesis of DA-18 using 2-Pyridinecarboxaldehyde and using N2S and 2-Thiophenecarboxaldehyde	Mark Benvenuto University of Detroit-Mercy
Roza Hassen Murray Wright Project Title: The Molecular Orbital Analysis of Unsaturated Hydrides of Group 14	David Benson Wayne State University
Mashkir Husain Northern Project Title: Investigations of Novel High Dielectric Organic Materials	Ted Goodson Wayne State University
Crystal Martin	Claudio Verani

(Continued on page 4)

(Project SEED Continued from page 3)

Renaissance

Wayne State University

Project Title: The Application of Metal Containing Liquid Crystals in Nanotechnology: Synthesis and Characterization of Precursors

Sumaiyah Mu' Min

Howard Matthew

Communication & Media Arts

Wayne State University

Project Title: Heterogeneous Acetylation of the Biomaterial Chitosan

Most of the research was done in the afternoon. Hence, the students had plenty of time to enhance their background in the research assignments as well as lay the framework for the required final paper. Also, for the third year the Project SEED students served as science peer mentors for students enrolled in Biology, Chemistry and Physics in the Wayne State University Upward Bound program (UB). UB is a residential program that provides its participants with a full six week academic experience that extends from foreign language to Physics.

A fundamental component of each summer's program is student presentations. Students made presentations on topics such as scholarships, letters of inquiry, admissions requirements, developing a plan of work relative to a college major as well as research and other issues of interest. Of course, the students did find some time to enjoy the summer. The group went to a Detroit Tigers baseball game, which the home team won along with a number of other scheduled activities. Next summer only half of the selected students will be eligible to return to the program. If these students return they will be eligible for the Project SEED scholarship as well as an increase in the stipend they received the prior year.

External funding drives the Project SEED scholarships. The division administers the program, but funding has come from a number of sources, including NSF, the Department of Education, and individual contributors. Among the notable contributors are Alfred Bader, who alone has contributed \$300,000, and the Campaign for Chemistry and an ACS matching gift fund that added \$1.5 million.

(Continued on page 5)

(Project SEED Continued from page 4)

Project SEED originated 32 years ago by Dr. Alan Nixon, past-president of the ACS, and like-minded chemists. This program was created to offer economically disadvantaged students the opportunity of a lifetime. Instead of loafing away the summer, a high school student who has had at least one year of chemistry can work with a scientist doing a project with a chemical focus. These students work a full 40-hour-week; it is a great summer job.

Lastly, Detroit Section Project SEED would also like to acknowledge BASF for its contribution of support to Charles Bell. Mr. Bell is in his freshmen year at Wayne State. BASF has for the second year recognized one of the SEED students in the form of a book scholarship. A thank you also goes to Cliff Norman for his support and Sunitha Grandee (past Detroit section Chair) who initiated this award.

Keith Williams, Detroit Project SEED Chair

Career Corner - Conducting a Self-Assessment

The ACS has pulled together yet another terrific resource for their members: the "Chemjobs" website. I encourage anyone thinking about a career transition or anyone in the midst of their job search to visit <http://chemistryjobs.acs.org/careerdev>.

While there are many resources and links provided, from finding a job to hiring a professional coach, the Behavioral Style Assessment was very helpful. It is like giving yourself your own annual review. It will help define your strengths and weaknesses, what you bring to the organization, tips for better communication, and most importantly, your ideal environment. This tool can help you determine whether a job is a good fit, or better yet, prepare you to sell yourselves in a resume or interview.

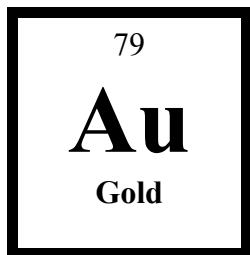
For more personal assistance, I am available at:

kleinmegan@hotmail.com.

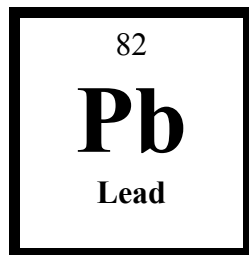
Good Luck!

Megan Klein, Chair, Career Program

(First and Worst continued from page 1)



The Rules of:
First 'n
Worst



All chemists and chemical engineers have seen examples where the media reports or advertises using chemistry, and has done it well. We've all also seen some real chemical garbage in advertising or the media. Now's your chance to win something for it:

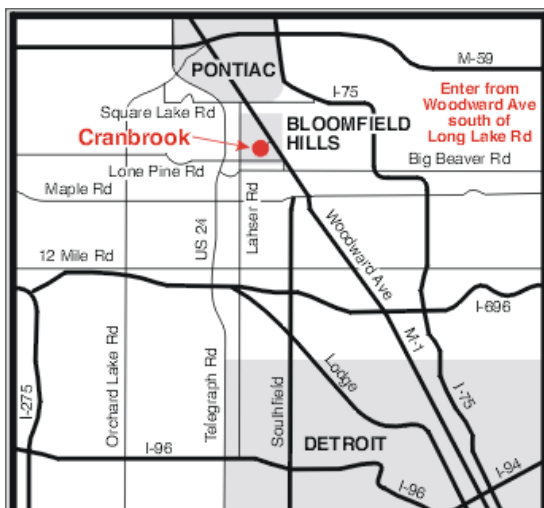
1. Send any references for either first or worst chemistry submissions to jim.landis@gt.org.
2. Submissions via email are preferred.
3. In one or two sentences, explain why your entry is a first or a worst.
4. Judging each month will be at the Detroit ACS Section Executive Committee meeting.
5. Judges decisions are final.
6. All first and worst winners will be announced in the next issue of the Detroit Chemist.
7. Monthly winners will be sent a certificate and prize.
8. All monthly winners will be kept on file (from September through April).
9. The annual winners will be announced in April, and both winners will be invited to the Detroit-Windsor meeting in May to receive the Annual First 'n Worst award.

(Chemluminary Awards continued from page 2)

As for the other award categories in which we were a finalist, in the case of Outstanding High School Program we lost out to the New York (city) Section – a very tough group to beat. For the NCW-Student Affiliate Program award, we lost to Puerto Rico (a really strong program). For Outstanding Local Section (medium size sections) we lost to the Princeton Section. However, being selected one of the 3 finalists in each of these categories is validation of the fine job that we are doing.

As your Councilors, we accepted lots of congratulations at the Chemluminary Award Celebration for the successful program that this Section runs. It certainly made us feel proud to represent all of you. We do have a great overall program in Detroit – all of you should feel proud too!

Your councilors,
Charlene Hayden
Jim Landis
Walter Siegl



**Map to National Chemistry Week Event
At Cranbrook**

228th ACS National Meeting Report from the Councilors

All three of your councilors (Charlene Hayden, Jim Landis, and Walter Siegl) attended the recent national ACS meeting in Philadelphia. In addition to attending the Council meeting on Wednesday morning, all three were also busy with committee assignments. (Similar to the U.S. Congress, most of the work of the ACS Council actually takes place with the activities of the various committees of Council.)

Charlene Hayden is a member of the Local Section Activities Committee (LSAC), which reviews the Annual Reports for all Local Sections, runs the Local Section Leaders Conferences, and gives various awards at the ChemLuminary Awards Ceremony each year. Most of the group's work is accomplished during the year by its subcommittees. Charlene is a member of the Local Section Assistance & Development subcommittee, which proactively reaches out to help Local Sections in need of assistance. Charlene also serves as a member of the LSAC-DAC Joint Task Force (working to develop interactions between Local Sections and Divisions) and as a Liaison from LSAC to the Committee on Public Relations and Communications.

Jim Landis is a member of both the Council Committee on Meetings and Expositions (M&E), and the Committee for Chemists with Disabilities (CWD). Jim is also a member of M&E's subcommittees on Regional Meetings and Expositions. At the Philadelphia meeting, CWD worked on establishing a Strategic Thrust to coincide with that of the ACS and preparations for highlighting the committee's 25th anniversary with several events to be held at the ACS national meetings in 2005. M&E is responsible for the logistics of ACS's meetings and the associated expositions, including site selection, financing, scheduling technical programming, etc. The Expositions subcommittee deals with optimizing the show to enhance its effectiveness to the attendees and vendors by looking at issues such as hours of operation, costs, vendor services, etc. The Regional Meetings subcommittee is developing a collection of documentation and guidelines to help the organizers of the Regional Meetings and manages a grant program to provide seed money for innovative activities held at the Regional Meetings.

Walter Siegl completed his term on the Committee on Membership Affairs at the end of 2003 and is now a member of the Committee on Constitution & Bylaws (C&B). Most of the work by C&B at this meeting was directed at updating of documents that the committee uses to review Bylaw changes requested by local sections and divisions. Walter recently worked on the subcommittee which reviewed the Bylaws of the Division of Professional Relations (and will soon put his expertise to work – updating the Detroit Section Bylaws).

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FROM THE COUNCIL:

Election Results

The Council elected members for the 2005-2007 term to the Committee on Committees; elected members for the 2005-2007 term to the Council Policy Committee; elected for the 2005-07 term; and to fill two vacancies on the committee, for a 2005-06 term, and for a 2005 term to the Committee on Nominations and Elections.

Candidates for President-Elect and Board of Directors

President-Elect 2005

E. Ann Nalley, Cameron University, Lawton, Oklahoma

F. Sherwood Rowland, University of California, Irvine, California

Isiah M. Warner, Louisiana State University, Baton Rouge, Louisiana

Director-at-Large, 2005-2007

David F. Eaton, Light Insights, LLC, Wilmington, Delaware

Judith C. Giordan, Visions in Education, Inc., Pleasanton, California

Howard M. Peters, Peters, Verny, Jones & Schmitt, LLP, Palo Alto, California

David N. Rahni, Pace University, Pleasantville, New York

Director, District II, 2005-2007 (which includes the Detroit Section)

Thomas H. Lane, Dow Corning Corporation, Midland, Michigan

Diane G. Schmidt, Procter & Gamble Company, Cincinnati, Ohio

Director, District IV, 2005-2007

Eric D. Bigham, GlaxoSmithKline, Chapel Hill, North Carolina

Paul R. Jones, University of North Texas, Denton, Texas

Robert L. Lichter, Merrimack Consultants, LLC, Atlanta, Georgia

John L. Massingill, Jr., Texas State University, San Marcos, Texas

Candidate Statement Guidelines: President-Elect and Board of Directors

The Council discussed a recent decision by the Committee on Nominations to reduce the allowable length for candidate statements (President-Elect and Board of Directors) from 1000 words to 750. A resolution was defeated at Council that would have allowed candidate statements to be 1000 words or more.

Proposal for an Ethics Committee

The Committee on Committees presented to Council a proposal for establishing an Ethics Committee as an Other Committee of the Council. The charge of this committee would be as follows: To coordinate the ethics-related activities of the Society; serve as an educational resource and clearinghouse, but not as an adjudicatory body, for ACS members seeking guidance on ethics issues; raise awareness of ethics issues through meeting programming and columns/editorials; review recognition opportunities for acknowledging ethical behavior; and develop and oversee such other eth-

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(Council Report continued from page 9)

ics-related activities as will serve ACS members and promote the Society's standards of ethical conduct within the profession of chemistry and its related disciplines. The Council voted to refer the recommendation back to the Committee on Committees for further study.

Registration Report, 2005 Advance Registration Fee, and Future Locations of National Meetings

As of August 24, 2004, the ACS fall national meeting had attracted 13,805 registrants as follows: Regular attendees 7,741; Students 2,919; Guests 482; Exhibit only 734; and Exhibitors 1,929. The 2005 advance registration fee was announced as \$295. The Council approved 2014 meeting sites as follows: Washington, D.C. (March 16-20) and San Francisco (August 24-28). The Committee on Meetings and Expositions will be requesting that the Board of Directors agree to switch the New York 2010 meeting with the Boston 2012 site due to projected construction on the New York Convention Center.

Membership Statistics

The Council was informed that as of June 30, 2004, total ACS membership stood at 154,945. Compared to last year, this represents less than a 1% decrease in the overall membership number. The good news is that the very impressive 50% increase in the recent graduates joining the Society experienced at year-end last year is continuing. At the end of June, more than 6,800 new members had been added to the membership rolls, which aligns well with the number at the same time last year.

Approval of Petitions

The Council voted to accept three amendments to the ACS Constitution and/or Bylaws (Petitions):

Petition for Electronic Balloting: the Petition for Electronic Balloting proposed changes to the Society's Constitution and Bylaws allowing for the option of electronic balloting. The first Society implementation will be internet-based, similar to those currently used by several divisions, sister societies, and other organizations, such as public corporations polling their shareholders prior to annual meetings.

Petition to Change Division Annual Report Deadline: makes the annual report deadline consistent with that of Local Sections. This allows the Council Committee on Divisional Activities more time to evaluate Division Annual Reports for making selections for the ChemLuminary Awards program.

Petition for Membership Requirements for Teachers: this change allows experienced qualified chemistry teachers, who may not otherwise fully meet the requirements, to become members based on their status and experience. The petition also allows a pre-college chemistry or allied science teacher to become an associate member.

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Special Discussion Item

A special discussion item was put on the Council agenda for this meeting. ACS President Charles Casey and Board Chair James Burke lead the Council in a discussion on the multidisciplinary/dispersion of chemistry as a discipline and its impact on ACS members and the profession. Questions were raised about the way the federal government identifies jobs held by chemists as one of many indicators of how multidisciplinary has come to affect the status of chemists. The Board of Directors and the ACS President have established a joint Board-Council task force to assess the challenges and opportunities that multidisciplinary presents to the ACS and chemical scientists in general.

FROM THE BOARD: The Society's Finances

The Board received a report from the Committee on Budget and Finance and was advised that the Society is projected to end 2004 with a net contribution from operations of \$1,531,000, which is \$60,000 favorable to the approved budget.

Your councilors,

Charlene Hayden, Jim Landis, Walter Siegl

AIChE News

On Dec 2 2004, the Detroit AIChE will have Dr. Michael Quah of NextEnergy give a presentation at WSU. NextEnergy (WWW.NEXTENERGY.ORG) is a non-profit Michigan Corporation established to promote alternate sources of power. NextEnergy has recently been awarded a contract, with Selfridge ANG and DTE, to provide system engineering services for the development of a Advanced Mobile Microgrid System (AMMS). The purpose of AMMS is for restoration of electric power in the event of unplanned outages within critical energy infrastructure. The system will be readily transportable, capable of providing power to operate military equipment, should utility power or fuel systems be compromised.

More Information regarding the AIChE - NextEnergy event will be available at a later date, please email Kevin Taylor at k2356@aol.com for a later update.

Detroit Section wants your Advice, Comments, Criticism, Ideas, Suggestions...

As an officer of the Detroit Section ACS for the last 5 years, I have had a number of discussions with representatives from the National ACS how the ACS could provide more value for the membership. Most recently, following the April Tri-Sectional Program, a small group from the Detroit Local Section and the National ACS met to exchange ideas on that subject. This little “brainstorming” session provided some good ideas. Unfortunately, what was lacking was a better understanding of what ACS Members really wanted or needed. Often surveys designed to extract this information received a marginal level of response and are usually somewhat narrow in scope.

As a result, we decided to try a fast, easy, informal survey to collect a broad spectrum of ideas and comments. The idea is to have a brainstorming session with the members. The information doesn't have to be extensive. A short description or comment will serve as a thought starter. If you have anything you would like to say about any aspect of the Section, you are invited to send that information to me (Chair of the Detroit Section). Unless otherwise informed, I will not reveal the source of the information to anybody.

There will be a short section with the ballots this year, where you can write your comments. If you would prefer, you can call me at (586) 986-1928 or e-mail me at Kevin.l.perry@gm.com. For the e-mail, please include “brainstorming” in the subject line. Additionally, please indicate if you would like to discuss the idea further or would prefer I not contact you. Don't worry; this is not an elaborate rouse to identify potential volunteers. Really, all I want is your idea or comment!

Looking forward to hearing from you,
Kevin Perry
Section Chair

News from Kids & Chemistry

As you have seen elsewhere in this issue, the Detroit Kids & Chemistry program won the top honor for its 2003 program at the ACS National meeting in Philadelphia. It is the 2nd time in four years that Detroit has been awarded the honor of Outstanding Kids & Chemistry Program. This is recognition of the excellent work not only of the co-chairs (Denise Grimsley, Mary Kay Heidtke, Gina Ludwig, Felix Schneider, Walter Siegl, and Christine Utter) but all of our volunteers who have helped make the individual events a success.

And, we seem to be off to our most productive year yet. On Thursday, September 16, we had a very success program at the Rouge River Water Festival at Cranbrook Museum. This was our first participation in this program (it is only the 2nd year it has been held). The facilities were good; we carried out our hands-on experiment on pH measurement of water and household liquids with 4 classes of 5th graders (25-30 students each). This is a program we will want to participate in again. Special thanks go to Christine Utter (GE Plastics) who organized the event and to her crew of Felix Schneider (US FDA retd), Ron Schroeder (WSU retd), Niki Maertens (Lab Support Inc), Joanna Szajnar (Cranbrook), Don Ray (Ford/Visteon, retd), Emil Lozanov (WSU), and Kathy Harris (Christine's sister).

By the time you read this article we will also have held a Saturday morning program on October 2 for inner-city kids at the Detroit Holistic Center. This will be about our 4th appearance at the center. We always get a great response from the kids. Our organizer for the event was Gina Ludwig (BASF). I'll let you know who was in her crew of volunteers in the next issue.

Our next event is the Detroit Section's National Chemistry Week program at Cranbrook Science Museum on Sunday, October 17. Denise Grimsley (BASF) is the organizer for the event and she will try to have 10-12 hands-on experiments and demos running all afternoon. So we need a lot of volunteers for this event. Details can be found elsewhere in this issue.

To get on our e-mail list for notification of future Kids & Chemistry events, please send an e-mail to Walter Siegl at wsiegl@sbcyahoo.com. We are always interested in having new volunteers – no training is necessary. Our volunteers range in background from college deans and laboratory managers to an occasional high school chemistry student – come join us some time!

UDM's Student Affiliates of the ACS Run Boy Scout Merit Badge Clinic

On Saturday, the 25th of September, Boy Scouts from the Detroit Area Council as well as the neighboring Clinton Valley Council converged on the University of Detroit-Mercy (UMD) Chemistry & Biochemistry Department for a chemistry merit badge clinic. Run by the UDM student affiliates group of the American Chemical Society (the Chemistry Club), the clinic took 17 scouts through the basics of organic, inorganic, physical, analytic, and biochemistry in just under three hours. The scouts were impressed by the changing colors of acid - base chemical reactions, as well as chromatographic separations of ink using nothing more complex than coffee filters. As well, they discussed with Chemistry Club members topics such as acid rain, how digestion works, the protection of iron and other metals from rusting, and just what chemists and chemical engineers do.

"The scouts really seemed well prepared," said club President Karrie Manes. "Of all the clinics we've run, this one definitely went the smoothest." Added Allen Brook, Chemistry Club member, "some of them could have read the merit badge pamphlet a bit better, but overall it went well." Other Detroit ACS members who heard of the clinic through the Detroit Chemist also helped club members. In all, seventeen club members or ACS volunteers gave up their morning to help get the scouts through.

Parents who were not able to get their son or other scouts to the event asked when another would be held. Plans right now are tentative, but it looks like February or March of 2005 will be the next clinic. If you are interested, contact Mark Benvenuto at, benvenma@udmercy.edu.

**COMMITTEE ON MINORITY AFFAIRS OF THE
AMERICAN CHEMICAL SOCIETY
IS PLEASED TO ANNOUNCE A
CALL FOR NOMINATIONS
THE STANLEY C. ISRAEL REGIONAL AWARD FOR
ADVANCING DIVERSITY IN THE CHEMICAL
SCIENCES**

Purpose: To recognize individuals and/or institutions that have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region.

Nature: The award consists of a medal and a \$1000 grant to support and further the activities for which the award was made. The award also will include funding to cover the recipient's travel expenses to the ACS regional meeting at which the award will be presented.

Rules of Eligibility: Individuals nominated for the award may come from any professional setting: academia, industry, government, or other independent facility. Nominees may also be organizations, including ACS local sections and divisions. The awardees will have increased the participation and leadership of underrepresented minorities, persons with disabilities, and women through mentoring, hiring, promotion and/or other activities that lead to greater inclusiveness within the chemical sciences.

To Nominate: For nomination of individuals, the packet should include a letter of no more than three pages, a seconding letter, and a CV or résumé. For the nomination of institutions, the packet should include the first two items and a brief description of the institution.

Send nominations to: Committee on Minority Affairs, American Chemical Society, 1155 16th Street, NW, Washington, DC 20036

For information regarding the award, contact Cheryl Brown, 800/227-5558, ext. 6123, or e-mail c_brown@acs.org

November Section Meeting

Midgley Award Presentation

to

Galen B. Fisher

Delphi Research Laboratories

at the

Henry Ford Estate

Dearborn, Michigan

November 3, 2004, 6:00 pm

Dr Galen will speak on:

The Role of Surface Chemistry in Automotive Emissions Control

The Detroit Section of the American Chemical Society is pleased to announce the selection of **Dr. Galen B. Fisher**, Principal Research Scientist in the Delphi Research Laboratories, as the 2004 recipient of the Thomas Midgley Award. Established in 1965, this award recognizes outstanding research contributions in the field of chemistry related to the automotive industry. Dr. Fisher is being recognized for his many contributions to understanding of the surface chemistry of automotive exhaust catalysts. In the 1980's and 1990's, he and colleagues elucidated the kinetics of surface reactions critical in three-way catalysis, most significantly establishing the connection between reactivity on model single crystal surfaces and real-world catalysts. He has coauthored more than 70 publications in the field, several of which are amongst the most cited in the surface science literature. He is a highly regarded and active advocate for surface chemistry and its role in industrial catalysis.

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(Midgley Award continued from page 16)

Dr. Fisher received a B.A. in Physics from Pomona College in 1966 followed by a Ph.D. in Applied Physics from Stanford University. After post-doctoral work at Brown University and several years at NIST as a staff physicist, he joined General Motors Research Laboratories in 1978, where he was a group leader in catalysis research. His group moved to Delphi Research Laboratories in 1999, where he is now a Principal Research Scientist.

ABSTRACT: Over the past 30 years emission standards for automobiles have been adopted in all industrialized countries. The US has experienced an aggressive lowering of the hydrocarbon (HC), CO, and NO_x standards (e.g., a factor of a hundred reduction for HC by the end of this decade). This has driven substantial innovation in automotive aftertreatment devices, both in achieving catalytic activity and materials durability. Surface chemistry has played an active role in providing a more comprehensive understanding of the reaction mechanisms involving HC, NO, CO, O₂, and H₂ over automotive catalysts -- for example, explaining why rhodium is a better CO oxidation catalyst than platinum. Many of the reactions of these species are also important in the operation of exhaust gas sensors and fuel cells.

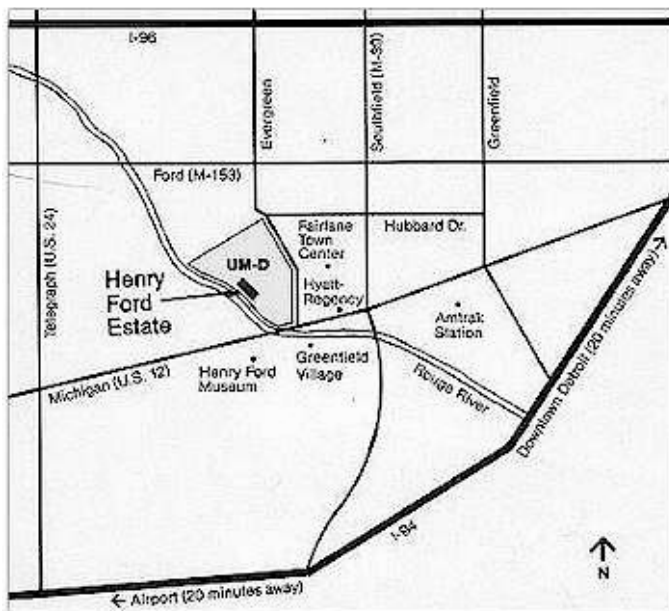
As automotive exhaust catalysts have matured, metal-support interactions have played a greater role in the operation of the catalyst (e.g., oxygen storage materials). Hence, the model systems that still capture the key attributes of operational catalysts have also grown more complex. To meet the future emissions regulations for lean-burn gasoline and diesel engines, even more complex aftertreatment systems are being developed which encompass a broader spectrum of catalytic processes. Similarly, a broader blend of tools, including many from surface science, is being developing to explain not only the steady-state, but also the transient performance of these catalysts.

Doors open for appetizers at 6:00 pm, and the program begins promptly at 7 pm, to be followed by dessert reception. Further information is available from Bill Schneider, Chair, Thomas Midgley Award

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(Midgley Award continued from page 17)

Committee, Ford Motor Company, MD 3083 SRL, Dearborn, MI 48121-2053, phone (313) 323-2064, e-mail wschnei2@ford.com.



The Thomas Midgley Award, founded by the Section in 1965, is given each year for outstanding research contributions in the field of chemistry related to the automotive industries. The award was originally funded by a grant from Ethyl Corporation. In

1994, the estate of the late Dr. George Brewer, a Midgley Medallist, provided a bequest to add a cash prize in addition to the medal. The Award is named in honor of the late Thomas Midgley, Jr., an Ethyl Corporation Vice President who was one of the most creative, far-seeing research scientists of his generation. Paramount among Midgley's achievements was the discovery of the use of tetraethyl lead as a gasoline antiknock compound, an event which helped to lay the groundwork for an unlimited automotive progress. But he was active as well on a number of other scientific endeavors. His many milestone accomplishments in the years between 1920 and 1940, such as the development of the halocarbon ("Freon") refrigerants, won for Midgley an enduring place among the greats of American chemistry. A person who saw very clearly the full measure of Midgley's genius was the man who knew him best--Charles F "Boss" Kettering. Kettering once observed that, "Midgley was not only an inventor--he also had the ability to reduce the invention to practical usefulness and sell and educate the public as to its advantages. The combination of these three things in an individual seldom occurs. He was a great crusader as well as a great scientist. His work and inventions have added greatly to the industrial and economic status of the world in which we progress and in scientific thinking in the new world of tomorrow." In this sense, the Midgley Award truly is a memorial to inventive genius.

Calendar of Upcoming Events

October 17-23

National Chemistry Week *See page 1 for details.*

October 17-20, 2004

36th Great Lakes Regional Meeting in Peoria, Illinois. *See May Chemist for details.*

November 3, 2004

Midgley Award Presentation at Henry Ford Estate to Galen Fisher. *See pages 16-18 for details.*

November 8, 2004

ANACHEM Symposium at the Burton Manor in Livonia, MI. Keynote presentation by Anachem Award recipient for 2003 Dr. Catherine Fenselau. *For information see the ANACHEM Website.*

November 17, 2004

The Women Chemists Committee (WCC) of the ACS Detroit Section Presents "Women in the Sciences: A Personal Odyssey" by Dr. Shulamith Schlick *See November Chemist for details.*

December 2, 2004

The Detroit AIChE will have Dr. Michael Quah of NextEnergy give a presentation at Wayne State University *See page 11 for details.*

Detroit ACS Section and ANACHEM on the Web

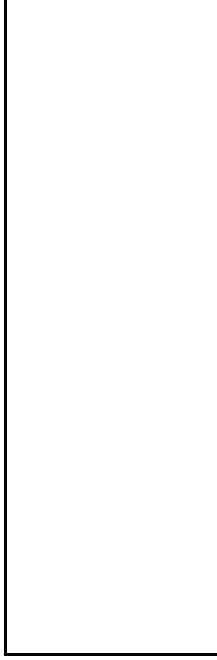
A Website for the Detroit ACS Section and ANACHEM, maintained by Ed Havlena can be found at: <http://www.detroitsection-accs.org>

The Detroit Chemist is now also available via email in text-only form. The email version is distributed at the same the issue goes to press (much sooner than the printed and bulk mailed edition). To subscribe send an email to: majordomo@angus.mystery.com with

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Attn: Dated Material

Here's your copy of the October Detroit Chemist