

KALCHEMIST NEWS

January-February 2004



Message from the Chair Patrick A. Irish

It will be just as busy this year as it was last year, as you will see later in this newsletter. Benjamin outlined the major activities that took place in just the fall of last year in the last newsletter. We should take pride in the fact that all of our planned activities went off with no major obstacles, despite the changes going on around us. Our current plans are for us to continue with all of our recurring activities, and actually increase funding for some that are student-oriented. We plan to have a tour speaker in the spring and in the fall this year, and are discussing having some local speakers in a more informal setting as well.

One of the things that ACS national headquarters encourages local section leaders to do is formulate goals for the section-some things they would like to see the section accomplish during their tenure in service to the executive committee. I only have a couple, and I wish to share them with you.

1. I wish to continue with all of our recurring activities, with no negative impact to the people our activities affect. This means that, despite a potential budget reduction, and a reduction in our local membership, I would like to see things like Merit Badge Day for the Boy or Girl Scouts, Chemistry Day at the Museum, Project SEED, and our awards programs for the local schools, continue unabated.
2. I wish to see us have greater media coverage at events in which we participate. We have had several activities in the past year that were very well attended, with literally hundreds of volunteers, and I would like to see that better covered in the newspapers and maybe even on the local television channels.

There are a couple of things that you as members can do to help make these goals a reality. First, VOLUNTEER! It is a great way to meet chemists that work in other fields, network, and make some new friends with similar interests. If you are interested in helping out with any activity, or just want to come to a meeting or get to know some other chemists, call or e-mail anyone on our EC. We would all be glad to hear from you, and would have no problem at all finding something for you to do. Second, the national headquarters would like us to have a dedicated public relations committee, with the purpose of increasing media attention for local activities. We have not yet formed that committee, and are still looking for a chair. If you are interested in PR, please give one of us a call or e-mail. There are many resources the national headquarters will make available to us in the PR area, including a trip to D.C. for some formal training in PR work.

In closing, please welcome the new EC members aboard. If you see Kent Alleman-your new Chair-Elect, or Joan Esson-your new Secretary, congratulate them and ask if there is any way you can be of help to them or your local section. Also congratulate Sheryl Loux as our Alternate Councilor. I thank Benjamin Maxey, our outgoing Chair, and Brian Buffin, our outgoing Secretary, for all of their hard work and dedication. Thanks also to the rest of our EC that is continuing this year in their spirit of volunteering and service to their local section and community.

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<http://www.wmich.edu/acs/>

KACS presents two Salutes to Excellence

Two Salutes to Excellence were given on Friday, December 5, 2003, at the Kalamazoo Aviation History Museum at a gathering of about 350 volunteers and families. Consistent with our NCW theme of Earth's atmosphere and beyond during the centennial year of powered flight, one of the plaques was given to the Museum for its 26-year diligence in aviation education in the Kalamazoo area, and the second plaque was given to Jerry Pahl, Education Assistant at the museum, honoring his 30-year commitment to aviation/science education first as a public school teacher and now as the Education assistant at the Museum. Both recipients were surprised to be so honored, and that made the presentation more special. Congratulations and best wishes are in order for both recipients for their continuing efforts in the education of youth and adults.



Awards Committee News

Committee Members: Sheryl J. Loux (269)343-4737 email sjloux@medscape.com, Lydia E. M.Hines (269)375-7349, Dr. Dean W. Cooke (269)375-2357

The Awards Committee is soliciting nominations for "Outstanding Service to the Kalamazoo Section of the American Chemical Society" until March 15, 2003. The awards will be presented at the spring awards banquet in May 2004. Please contact one of the Awards Committee members who are given above with your nomination.

KACS 2004 Executive Committee

As we begin the year 2004 we usher in a new Executive Committee serving the KACS section. For the benefit of both old-timers and new members, the following are the biographical sketches of some of the committee's elected officers.

Chair: Patrick A. Irish

I served in the US Army as a Military Policeman from Nov 1981 through Feb 1991, mostly in Germany. I remained in Germany from Feb 1991 through Dec 1993, working in personnel security. I returned to the US in Dec 1993, and enrolled in college at Ferris State University and graduated with a B.S. in Chemistry Education (summa cum laude) in May 1997. I started work at the then Pharmacia & Upjohn Company as a QC chemist in Oct 1997, then moved into R&D in the spring of 1999, and currently works in Analytical R&D for Project Progression Kalamazoo-a section of Pfizer Pharmaceutical Sciences. My areas of scientific interest and experience are HPLC, LC/MS, robotic liquid handling systems, and lab automation.

Chair-Elect: Kent S. Alleman

BA Chemistry, Hiram College, Hiram Ohio 1993

MS Analytical Chemistry, Indiana University, Bloomington Indiana 1996, Major Professor: Stephen E. Creager

PhD Analytical Chemistry, Indiana University, Bloomington Indiana 1998, Major Professor: Dennis G. Peters

In August 1998, joined Pharmacia & Upjohn as an analytical scientist in Pharmaceutical Development. Primary job function is development and validation of chromatographic methods for drugs and their dosage forms. Special interest in the application of headspace gas chromatography in the pharmaceutical industry.

Past Chair: Benjamin A. Maxey

I have a Chemical Engineering background and am a University of Michigan alumnus (Go Blue!). I grew up in the Kalamazoo area and started with The Upjohn Co. in 1988. I am currently a Supply Team Leader in the Kalamazoo API area of Pfizer Global Manufacturing. I have enjoyed participating in many of the local section activities, including the annual Chemistry Day at the Museum and the biennial Boy Scout Merit Badge day, and was the Kalamazoo section Publicity Chair for the successful Regional Meeting held in Grand Rapids in 2001.

Councilor: Lydia Hines

I became a member of the KACS in 1975 when I began my employ at The Upjohn Company. I became active from the very beginning of my relocation to Kalamazoo; I have served as Alternate Councilor and now Councilor (since 1983), Public Relations coordinator, NCW Coordinator, organized the first Chem Day at the museum in March of 1988 and continued in that capacity for several years, was Section Chairman in 1981 and served as General Chairman of the 1984 Joint Great Lakes/Central Regional Meeting in Kalamazoo. I resigned from The Upjohn Company in 1985 to raise 3 children and care for an ill mother, and I am currently scheduled to begin teaching a course in beginning chemistry at KVCC – I hope to help students "give chemistry a chance".

Alternate Councilor: Sheryl J. Loux, MPI Research, Mattawan, MI, Tele: 269-343-4737,

sjloux@medscape.com

I am currently employed in the ADME (adsorption, distribution, metabolism, and excretion) as a research biochemist at MPI Research in Mattawan, MI and previously was with Pfizer for 25 years. I have served the Kalamazoo Section of the ACS since the early 1980's in various capacities including: Publicity Chair, Secretary, Teacher Outreach Committee founder and Coordinator, Women Chemists Committee founder and steering committee member, Awards Committee Chair, Alternate Councilor, and outreach volunteer for talks and demonstrations.

CHEMISTRY DAY 2003

Over 100 volunteers and 1000 children participated in the 17th annual Chemistry Day on Saturday, November 8. Chemistry Day is co-sponsored by the Kalamazoo Section of the American Chemical Society and the Kalamazoo Valley Museum and includes approximately 25 hands-on chemistry demonstrations for elementary school children. This year's theme in accord with National Chemistry Week was "Earth's Atmosphere and Beyond." Chemistry Day is a great opportunity to share your excitement about science and support the community. The theme for 2004 involves chemistry and healthcare – a great opportunity for local chemists! If you are interested in volunteering next year, please contact Julie Lorenz (269-833-2209) or Patrick Irish (269-833-6818) for more details.

Thanks to the following volunteers who signed up for Chemistry Day 2003:

Scott Aldrich	Jenn Brink	Mark Reaser	Michelle Ruitter
Mary Aldrich	Alyson Smilanich	Laura Henderson	David Yancey
Annette Hoppenworth	Sheryl Loux	Omari Komau Bell	Arie Voorman
Angela Anson	Evan Loux	Suzanne Gorham	Neil Gajare
Karen Clausen	Carl Stachew	Mandy Suggitt	Rohan Krishnamurthy
Daniel Davis	John Stodola	Jason Bradley	Curtis Deer
Deb Bryant	Jeffrey Weber	Donald Fenton	Liz Wiess-DeBoer
Jackie Belden	Lori Todd	Lori Earls	Jarrod Breeding
Donald Schreiber	Julie Wittbrodt	Mark Crawford	Ariel Swanson
Janice Ensing	Erik Johnson	Rasha Alaraifi	Michael Ingram
Eric Schreur	Steve Bertman	Andy Li	Abby Strefling
Mark Gerger	John Grace	Amy Conine	Elizabeth Sodt
Chris Glass	Jeremy Cook	Abbie Lee	Chris Ciptadjaya
Jeannette Greselin	Dan Huffman	Troy Flodin	Jerry Pahl
Ellen Harrington	Andrea Yancon	Tatiana Mitchell	Gerald Harris
Leslie Hawley	Katy Downer	Deanna Cunningham	Wally Hines
Patrick Irish	Lindsay Voss	Cheryl Emanuel	Rupal Patel
Adam Jakob	Nick Beimer	William Merriweather	Kristen Eichorn
Joan Esson	Jon Marshall	Morledge Doris	Eric Boromisa
Joe Thorstenson	Chris Socha	James Smedley	Muhammad Rizwan
John Miller	Melinda Schaller	Andre Williams	Zahoor
John Hofferberth	Ian Aseltine	Roy Brigham	Julie Lorenz
Rebecca Johnson	Sobia Khaja	Sakeena Jones	Benjamin Maxey
Kathy Godin	Kevin Ratz	Joshua Moore	
Lydia Hines	Daniel Carmona	Cherron Glosson	
Anne Miller	Lisa Howard	Shri Aravamuthan	
Nancy Wicnienski	Lori Cortell	Jesse Baker	
Lynn Pruitt-Timko	Kelly Dollar	Matt Gumbleton	
David Russell	Valerie Vogan	Shauna Paradine	
Cliff Sacks	Steven Hedstrom	Rishi Mediratta	
Carly Chamberlain	Ryan Johnson	Andy Whiteman	
Amy Sykora	Whitney White	Evelyn Hall	

John Stodola (Pfizer, Pharmaceutical Sciences-Analytical Research and Development) and Shauna Paradine (Kalamazoo Area Math and Science Center) help Camden and Branden Maxey understand how milk can dance! (Photograph provided by Benjamin Maxey.)



Patrick Irish, Anne Miller and Daniel Davis (Pfizer, Pharmaceutical Sciences-Analytical Research and Development and Supply Chain Analytical Control) demonstrate “how cold is cold” with liquid nitrogen. (Photograph provided by Julie Wittbrodt.)



News from the Women Chemists Committee of the KACS

by Sheryl Loux

Nominations Sought for STEERING COMMITTEE MEMBERS OF THE WCC

The Steering Committee is composed of up to 5 WCC members. Steering Committee members have staggered 3-year terms (expiration year of term in parenthesis). Currently 1 of 5 positions on the steering committee expired at 2003 year end. Please consider nominating yourself. Nominations will close by February 2, 2002 and elections will be held by the end of February 2002.

GIRL SCOUT CHEMISTRY MERIT BADGE DATE SET *Volunteers Needed—No experience necessary!*

(Contact a steering committee member to volunteer)

9 AM to 3 PM, Saturday, March 13, 2004 for 100 Girls Scouts at WMU.

Volunteers can be scheduled to work for half or whole day.

All the experiments plus answers and explanation can be obtained in advance by email and are available for your use during the experimental labs. The average age of the Scouts is 11 years.

The laboratory will be led by an experienced demonstrator. No chemistry background is required for the volunteers. The Girl Scouts provide pizza and drink for volunteers and Scouts.

Join the WCC—new members are welcome!

Any Kalamazoo Section member may join. Just email Sheryl J. Loux at sjloux@medscape.com. Currently our goals include conducting the Girl Scout Chemistry Badge every other year, writing experiments for the Glowing Embers Handbook of Badges, and sponsoring speakers.

The KACS WCC Steering Committee

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The KACS Women Chemists Committee

Other WCC members:

Please contact Sheryl J. Loux at sjloux@medscape.com with your wish to remain or join the WCC. I need to update our records. Thank you.



<http://membership.acs.org/g/glrm04>

Formulate Your Future

October 17-20, 2004

Peoria, Illinois

American Chemical Society
36th Great Lakes Regional Meeting

Symposia

The Future of Chemical Education in the Great Lakes Region
Polysaccharide Structure and Function
Agricultural Chemistry & Technology
Entrepreneurship in the Chemical Sciences
Bioenergy, Biofuels, & Biodiesel

Technical Sessions

Natural Product Chemistry
Organophosphorous
Biochemistry
Inorganic Chemistry
Undergraduate Research

Emerging Technologies
Organic & Polymers
Medicinal Chemistry
Physical Chemistry
Chemical Education

Awards

Industrial Innovation
High School Teacher of the Year
"Chemagination"

Networking

Women Chemists Luncheon
Power Breakfast
Student Affiliates
Poster Session-Monday pm

Education

Teacher Education Workshops
ACS Short Courses
Grant Writing Workshop

Outreach

Kids & Chemistry
National Chemistry Week
Project SEED

Regional Employment Clearinghouse

Industrial and Academic Exposition

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<http://membership.acs.org/g/glrm04>



2004 KACS Calendar

Contact the person in parentheses to answer questions or to volunteer

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- January 8 KACS Executive Committee Meeting, Pfizer B126 CR, 4:30pm
- February 5 KACS Executive Committee Meeting, Pfizer B126 CR, 4:30pm
- March 5 KACS Executive Committee Meeting, Pfizer B126 CR, 4:30pm
- March 13 Girl Scout Chemistry Day
(Sheryl Loux sjloux@medscape.com, 269-343-4737)
- April 1 KACS Executive Committee Meeting, Pfizer B126 CR, 4:30pm
- April 23 Spring Tour Speaker Ann Mary Nefcy
Topic: "Today's Environmental Chemistry: What are we doing? Where
are we going?"
(Patrick Irish, patrick.a.irish@pfizer.com, 269-833-6818)
-

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March-April 2004



Message from the Chair Patrick A. Irish

Greetings,

On a personal note, I was the beneficiary of good chemistry for the last two months. I had a herniated disc in my lower back, and was in extreme pain. Thanks to anti-inflammatories such as valdecoxib, and analgesics such as hydrocodone and oxycodone. The disc required surgery, which also led me to thank clindamycin, Versed, Fentanil, Morphine, and Percocet. The recovery has required me to thank Neurontin, and again hydrocodone (though in lower doses, and less often). I owe gratitude to the gifted surgeon, but the entire process would have been much more painful and risky had it not been for good medicines. My personal experience with chemistry has led me to believe in the benefits provided by the pharmaceutical industry in particular, and the chemical industry as a whole.

On a local section note, we have a spring tour speaker in Kalamazoo on April 23. Her name is **Ann Mary Nefcy**, and she has a great deal of experience with environmental and water safety chemistry-she has worked for the EPA and other environmental agencies during her interesting career. Her topic will be "Today's Environmental Chemistry: What are we doing? Where are we going?" Her talk will be held in 1301 Wood Hall of the Western Michigan University campus, April 23, at noon. Please come and give a listen; it should be a very interesting talk, and Ann Mary is a very colorful speaker. Hope to see you there!

Patrick

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For mailing address changes, please contact Karin Kwok
(karina.kwok@pfizer.com, 833-4729)

KACS 2004 Executive Committee

In this newsletter we continue with the biographical sketches of the KACS executive committee members.

Secretary: Joan Esson

I was raised in Erie, PA and moved to Kalamazoo in 2000 to begin a position as Assistant Professor of Chemistry at Kalamazoo College. I received my B.S. in Chemistry from Baldwin-Wallace College in Berea, OH, and went on to receive my Ph.D. in Analytical Chemistry from The University of Michigan, studying in the laboratory of Mark Meyerhoff. I then went to Penn State University to complete a one-year postdoctoral position with Andy Ewing. Since arriving at Kalamazoo College I have been the faculty advisor for the ACS student affiliate section, and actively volunteer for several ACS outreach activities, including Museum Day, Boy Scout Merit Badge Day, and Girl Scout Merit Badge Day.

Councilor: Dean Cooke

I became a member of the ACS in 1956, my first year as a graduate student at the Ohio State University. I received my PhD in Inorganic Chemistry in 1959 and accepted a teaching position in the Chemistry Department of the University of Michigan that fall. After teaching there for seven years I accepted a position in the Chemistry Department at Western Michigan University where I taught for twenty nine and one half years, retiring as Emeritus Professor in Chemistry in January, 1996. In the latter years of my teaching career I became interested in bringing chemistry to elementary school teachers and taught several courses and gave many workshops on that topic.

I joined the KACS in 1966 and soon became chair of the Education Committee of the section, a position that I held off and on until 2001. In 1975, I served the section as Chair and in 1978 I became one of the two Councilors who serve the section on the national level. At the end of 2004, I will have served for 27 years in that position. On the national level I have served on several committees including two elected committees.

Alternate Councilor, Donald R. Schreiber

Following my Ph.D. at University of Miami, I spent four years at Lawrence Berkley National Laboratory and the University of California, working with Professor Kenneth S. Pitzer on ionic solutions in the region of their critical point. In 1988 I joined the faculty of Western Michigan University's Chemistry Department. I have served the department in a number of capacities including Undergraduate Advisor and Advisor to the Student Affiliates of the ACS. At Western I have been studying the fate of metals in the aquatic environment using thermodynamic models. I have been an active member of the Kalamazoo Section of the American Chemical Society since coming to Kalamazoo. Prior to becoming Alternate Councilor, I served as Secretary on an interim basis and as Chair of the Section. I also serve as the section's Project Seed Coordinator and as Chair of the Education Committee.

Treasurer, Michael L. Kiella

Michael Kiella is currently employed as a Technical Manager in Pfizer Global Manufacturing - Kalamazoo Active Pharmaceutical Ingredients Compliance Management Group. Prior to work in Quality Operations, he was an Associate in Physical and Analytical Chemistry Research at Pharmacia & Upjohn working in the lab of Dr. Jack DeZwaan. Mr. Kiella is in his 19th year at Pfizer, starting with the legacy Upjohn Company. Michael began his career in the pharmaceutical industry in the lab of Mr. Gary Boerner at the Perrigo Company in Allegan Michigan. He is a 15-year member of the Kalamazoo Section of American Chemical Society and in his third term as Treasurer of the Executive Committee. Michael is Industry Advisor to the Western Michigan University Student Affiliates and ChemClub. He co-chairs the Local Section Government Affairs Committee with Dr. John Stodola. Michael holds an Associate of Science Degree from Kalamazoo Valley Community College and a Bachelor of Science Degree from Western Michigan University

His away-time is spent reading (essays and short fiction) and traveling with his family. Mr. Kiella lives in Allegan with his wife, Barbara.

News from the Women Chemists Committee of the KACS

Sheryl Loux

Election of New WCC Steering Committee Member

Congratulations to Jennifer A. Larese! The election was held the last week of February.

The KACS WCC Steering Committee

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GIRL SCOUT CHEMISTRY MERIT BADGE

The report on the Girl Scout Chemistry Badge event held on **9:00 AM, Saturday, March 13, 2004 for 100 girls scouts at WMU** will be in the next issue of the newsletter.



The Peoria Section of the
American Chemical Society
invites you to participate in the

36th Great Lakes Regional Meeting
"Formulate Your Future",
October 17-20, at the Pere Marquette

Infinite
Possibilities

Multiple
Opportunities

One
Compelling Event



Be Seen in
Peoria!

Join the best minds in education, industry and government at a variety of technical and poster sessions, including symposia focused on education, food and agricultural chemistry, and polymer chemistry, in addition to the core high-quality ACS sessions.

The North Central American Oil Chemists' Society will also sponsor numerous symposia ranging from new crop developments to edible applications.

Meeting highlights will include:

Teacher Workshop

Short Courses

Undergraduate Poster Session

Vendor Exposition

ACS Regional Employment Clearinghouse

Riverboat Cruise Awards Dinner

WCC and YCC Events

<http://membership.acs.org/g/qlrm04>

**Spring Tour Speaker
Mary Ann Nefcy**

**“Today's Environmental Chemistry:
What are we doing? Where are we going?”**

April 23, 2004
Western Michigan University

Abstract

Engineers view the environment at the Macro-level, while chemists look at the molecular level. Botanists, biologists, computer scientists, ecologists, geologists, and environmental scientists all contribute to environmental work. Environmental projects are multi-disciplined, with chemistry providing the structural support. Ann Mary Nefcy will present an overview of the chemistry process. She will also show case studies of environmental projects: the GOOD, the BAD, and the UGLY. Her presentation will include slides of major environmental Superfund clean-up sites, innovative mining discharge clean-ups, wetland identifications and delineations, today's modern analytical laboratory, and the world's mountains. This technical briefing can help you understand the important role of chemistry in environmental cleanup projects.

About Our Speaker

Ann Mary Nefcy obtained her B.S. in Chemistry from the University of Michigan in 1971 and her M.S. in Chemistry from the University of Colorado in 1990. She started her career at an environmental laboratory, Clayton and Associates, in Detroit, Michigan. She worked for three years at the Colorado Department of Health, and then, 13 years at the United States Geological Survey. There, she worked in the National Water Quality Laboratory, the U.S.G.S. Director's Office, and the Office of Hydrologic Research Laboratories. After completion of her graduate degree, she founded an environmental consulting company, ChemData Corporation, and worked for 8 years consulting on environmental projects. Then she left for our Nation's Capital. Ann Mary just finished a two year appointment emphasizing policy and program management at the United States Environmental Protection Agency in the Office of Solid Waste and the Office of Pesticide Programs. Today, she is a consultant in Washington DC. She serves on the Board of Governors of the American Chemical Society - Chemical Society of Washington for the past two years.

For directions to Western Michigan University please refer to the following link:

<http://maps.pp.wmich.edu/KaMai/index.html>

For additional information please contact Patrick Irish Patrick.a.irish@pfizer.com; (269)833-6818

KALAMAZOO SECTION ANNUAL AWARDS BANQUET

The Kalamazoo Section of the ACS will hold its Twenty Eighth Annual Awards Banquet on Monday, May 24, 2004, in the West Ballroom of the Bernhard Center on the Western Michigan University Campus from 6:00 to 8:00 p.m. The awards banquet is held annually to honor outstanding high school senior chemistry students and high school teachers.

At the dinner, the Outstanding High School Chemistry seniors from the 35 high schools in the area served by the Kalamazoo section will be honored. The section will also present checks and certificates to the winners in the Kalamazoo Section's Competitive Examination program. Outstanding College Chemistry Seniors from Kalamazoo College and Western Michigan University will also be acknowledged.

An award will be given to the Outstanding High School Chemistry Teacher for 2004 for the Kalamazoo Section. This year we will be accepting nominations for the award from the KACS membership, so if you want to nominate your child's High School Chemistry Teacher, please contact, Dr. Brian Buffin at 269-387-2420 or by email at brian.buffin@wmich.edu

Also to be honored at the banquet will be Kalamazoo Section members who are Fifty Year ACS members and a special Kalamazoo Section Achievement award will be presented.

The cost of the dinner, including gratuity, is \$16.00. Any Kalamazoo Section member or guest who wishes to attend the Awards Banquet should return the following by May 14, 2004 or call at 387-2846 to make a reservation.

PLEASE RETURN by May 14, 2004 to: Ms. Annie Dobbs
Chemistry Department
Western Michigan University
Kalamazoo, MI 49008

Please make the following reservation for the Annual Awards Banquet of the Kalamazoo Section of the American Chemical Society at \$16.00 for each plate.

<u>Name</u>	<u>Address</u>	<u>Places</u>	<u>Cost</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
		Total Cost	_____

PLEASE MAKE CHECKS PAYABLE TO: "The American Chemical Society"

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c/o S. Karina Kwok
Pfizer
Mail Stop 0200-89-1
7000 Portage Road
Kalamazoo, MI 49001-0199

Please contact Karina Kwok at karina.kwok@pfizer.com if you prefer to receive your newsletter by email.



2004 KACS Calendar

Contact the person in parentheses to answer questions or to volunteer

-
- April 23** **Spring Tour Speaker Ann Mary Nefcy**
Topic: "Today's Environmental Chemistry: What are we doing? Where are we going?"
Western Michigan University
(Patrick Irish, patrick.a.irish@pfizer.com, 269-833-6818)
- May 6** **KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm**
- May 24** **Kalamazoo Section 28th Annual Awards Banquet**
(Register by May 14) **West Ballroom, Bernhard Center, Western Michigan University**
6:00 pm to 8:00 pm.
(Don Schreiber, Donald.Schreiber@wimich.edu)
- June 3** **KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm**
-

KACS Website Address:

<http://www.wmich.edu/acs/>

KALCHEMIST NEWS

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May-June 2004



Message from the Chair Patrick A. Irish

Greetings,

We had a pretty good turnout for the Spring Tour Speaker. Ann Mary Nefcy gave a talk on "Today's Environmental Chemistry: What are we doing? Where are we going?" There were about 45 people in attendance, many of which were college students. Ann Mary graciously took the time to personally greet the students, and at the end of her talk gave an inspirational message to them.

The **28th Annual Awards Banquet** is scheduled for Monday, May 24. At the banquet, we will honor the Outstanding High School and College Chemistry students from area schools, the Outstanding High School Chemistry Teacher, and local section Fifty Year ACS members. We will also present awards and certificates to the winners of the Kalamazoo Section Competitive Examination Program. If you are interested in attending, a **registration form** is available in the March/April edition of the Kalchemist News (available on the website).

Now is the time to start thinking about next year's **Executive Committee nominations**. If you are interested in serving on the EC or wish to nominate someone, please contact me (patrick.a.irish@pfizer.com, 833.6818) or another EC member.

Now is also a good time to start thinking about **Chemistry Day at the Museum**, November 6. If you are interested in volunteering, please contact Julie Lorenz (julie.k.lorenz@pfizer.com, 833-2209).

Patrick

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For mailing address changes, please contact Karin Kwok
(karina.kwok@pfizer.com, 833-4729)

“Career Corner”

Susan R. Stapleton

Local Section Career Program (LSCP) Coordinator

email: stapleton@wmich.edu

phone: (269) 387-2853

Do you know what the ACS Local Section Career Program (LSCP) is all about?

LSCP was established in 1996 to complement the career services offered by National ACS and we have had LSCP coordinator in place since 2000. The mission of the program is “To equip local sections with the materials and information needed to offer employment assistance in their geographic area”

As your LSCP coordinator, my goal has been to provide members with information on local employment and career assistance as well as provide services complementary to those offered by National Career Services, such as one on one assistance for things such as resume review, interviewing techniques, and job search strategies.

Should you be in need of any of these services, please do not hesitate to contact me.

The 36th ACS Central Regional Meeting

June 2 – 4

IUPUI campus in Indianapolis, IN

There are over 450 abstracts submitted for this meeting. The program offers a range of areas including a strong emphasis in the following areas: analytical chemistry, biological chemistry, inorganic chemistry (molecular electronics), organic (synthesis, combinatorial chemistry), physical chemistry (molecular clusters, nanochemistry, interstellar space), and chemical education.

Most of these topics have significant overlapping content between multiple areas, especially biological processes. Special symposia include solid-state NMR and NMR involving membranes, honoring Leo Paquette, regulatory strategies, and forensic chemistry - but this is just a short list of the meeting content!

Visit our website, <http://membership.acs.org/c/cerm2004>, for more information on the technical program and the exciting special events.

Special Conference Center hotel room rate blocks for this meeting expire soon, so please reserve now by calling 1-800-627-2700 and referencing the 'ACS Central Regional Meeting'. For meeting registration, follow the link on the meeting home page above.

We hope to see you in Indianapolis for the 36th CRM!!

News from the Women Chemists Committee of the KACS

05/11/04 by Sheryl Loux

GIRL SCOUT CHEMISTRY MERIT BADGE

The Girl Scout Chemistry Badge laboratories were held on 9:00 AM, Saturday, March 13, 2004 for 92 Girls Scouts at WMU. Newspaper articles about the labs were seen once in the Portage Hometown and twice in the Kalamazoo Gazette (the last on April 19th). The WCC Steering Committee thanks Jerrie Fiala, freelance writer, for the great Gazette article with pictures and Mark Crockhite, Glowing Embers Council Program Director, for the excellent job in coordinating the event for the Girl Scouts. The WCC Steering Committee showed its appreciation in the form of a certificate to each volunteer during the labs. Again, the WCC steering Committee thanks the following **volunteers** for the 2004 Girl Scout Chemistry Badge. (Any omissions or errors are solely the responsibility of Sheryl Loux, who misplaced the last minute additions and deletions list she created while attempting to facilitate activities in the labs.)

Volunteer List

WMU:

Sue Stapleton LEADER
Tom Norton
Len Harris
Vivian Locke
Elke Schoffers LEADER
Theresa Obias
Jie "Christine" Zhuang
Alhaji N'jai
Deepti Goel
Stacey Pierce
John Miller
Joel Lwande
Reddy Guduru

KalamazooCollege:

Joan Esson LEADER
Ellie Toskey
Nena Wendzel
Paul Schramm
Amelia King
Regina Truss LEADER
Allison McKenna
Dan Huffman
Nick Beimer

Others:

Desiree Quizon-Colquitt LEADER
Valerie Valoppi

Pfizer:

Delara B. Godrej
Rebecca L. Johnson
Adam M. Jakob
Mary M. Kellogg
Donna Upchurch (& daughter, Catherine Upchurch)
Mari Stephan
Kimberly F. Greve
Rebecca A. Scott LEADER
Christopher Glass
Julie A. Wittbrodt
Angela Anson
Carl F. Stachew

MPI Research:

Sheryl Loux LEADER

Kalamazoo Central High School:

Evan C. Loux

The KACS WCC Steering Committee

Sheryl J. Loux ('04)

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Email: sjloux@medscape.com

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Dr. Regina Stevens-Truss ('05)

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Fax: 269-337-7251
Email: rtruss@kzoo.edu



Chemistry Day at the Kalamazoo Valley Museum

Saturday, November 6, 2004

The National Chemistry Week theme for 2004 is "Health and Wellness". Please be thinking of experiments that you would like to share during our annual Chemistry Day at the Museum event on November 6 from Noon to 4:00pm.

We need the list of experiments and demonstration leaders by October 1.

If you're interested in participating please contact Julie Lorenz (269-833-2209 or julie.k.lorenz@pfizer.com).

http://www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=ncw\ncw_index.html

Call for Nominations for 2005

The KACS Executive Committee is requesting nominations for the following positions for terms starting in 2005:

Chair Elect

Treasurer

Alternate Councilor

Position Available

WMU Chemistry Instructor – Sabbatical Replacement

The Department of Chemistry, Western Michigan University is seeking a one-year (AY 2004-2005) sabbatical replacement pending budgetary approval.

The candidate will be expected to teach two to three classes in each of the fall and spring terms with the potential for offerings in the summer sessions. The courses to be assigned would be general and organic chemistry. The preferred candidate will have a Ph.D. in Chemistry with recent undergraduate teaching experience at a junior college or four year institution, though other qualified applicants will be considered. A complete application will include: a curriculum vitae, the syllabi of past courses (if applicable), student ratings of the instructor (if available), a statement of teaching philosophy and the names and contact information for three references.

Application materials should be forwarded to Professor Michael J. Barcelona, Chair, Department of Chemistry, Western Michigan University, Kalamazoo, MI 49008-5413. Western Michigan University, a student centered research university, encourages applications from underrepresented groups and is an Equal Employment Opportunity/Affirmative Action Employer. Screening of applications will begin on May 1, 2004 and will continue until the position is filled.

Councilor report from Anaheim, March 26-31, 2004:

The Council voted to present the following 2 candidates for election as President-Elect for 2005: F. Sherwood Rowland, and Isiah Warner. E. Ann Nalley will also appear on the ballot as a petition candidate.

President-Elect Bill Carroll encourages tour speakers to give talks to civic groups and to H.S. students when at a local section. He wants to promote hiring of Chemistry teachers (rather than science teachers) and is working to develop a method to encourage the retraining of ACS members for hire as chemistry teachers.

President Chuck Casey indicated that at the Fall meeting in Philadelphia will have an Academic Employment Initiative (AEI) with NSF-funding support; this is an effort to broaden the faculty recruiting process by including personal interactions between job candidates and recruiters before invitations to visit campuses are issued. Those interested in academic employment may meet potential employers at SciMix in a special Section, with posters of research interests, plans, etc. He encourages the use of the LAN (Legislative Action Network) for impact on the political process.

In her report Elsa Reichmanis, Past President, emphasized the need for inclusiveness in the ACS, and encouraged support of the "cooperation with AIChE, as well as formation of further "strategic relationships"; she mentioned other organizations which may be included.

ACS Board Chairman, Jim Burke, emphasized that the strategic plan guides what they do as a Board. They voted to support a research and education conference in the Middle East. He emphasized that ACS did not seek AIChE, but AIChE approached the ACS for cooperation. "Strategic Alliances" is the byword for them. He encouraged Local Sections to make programmatic plans which include AIChE.

Madeleine Jacobs gave her report on her 91st day on the job as Executive Director and CEO of ACS. She wants to know what is valued by members, students, and what ACS can do better. She, too, encourages members to work to transform the definition of chemistry to make it more inclusive. "We need a larger, not smaller tent for ACS"...

The Committee on Committees (ConC) voted to establish a Committee on Ethics; the combined Leadership Conference concept was well received and will continue.

Dues for 2005 will increase to the full escalated value of \$123.

The Society Committee on Education (SOCED) is working on a proposal to seek CE (continuing education) credits for teachers attending ACS National and Regional Meetings.

There were 14,141 total attendees at the meeting; of these, 7,700 were full members, 3,800 were students, with the others being guests and exhibitors.

The Career Consultant program is now online for members who want assistance.

Lydia E. M. Wines

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Kalamazoo, MI 49001-0199

Please contact Karina Kwok at karina.kwok@pfizer.com if you prefer to receive your newsletter by email.



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| May 24 | Kalamazoo Section 28 th Annual Awards Banquet
West Ballroom, Bernhard Center, Western Michigan University
6:00 pm to 8:00 pm, (Don Schreiber, donald.schreiber@wimich.edu) |
| June 3 | KACS Executive Committee Meeting, Bell's Eccentric Cafe, 5:00pm |
| August 5 | KACS Executive Committee Meeting, Bell's Eccentric Cafe, 5:00pm |
| November 6 | Chemistry Day at the Museum, Kalamazoo Valley Museum,
Noon to 4pm, (Julie Lorenz, julie.k.lorenz@pfizer.com) |

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lemh@medscape.com

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July - August 2004



Message from the Chair Patrick A. Irish

Greetings from the Chair;

I hope you enjoyed watching some fast colorful exothermic reactions over the Independence Day weekend (fireworks). Please be careful and liberally apply zinc oxide or p-amino benzoic acid in an emulsion (sunscreen), while enjoying fun summer activities.

We are currently scheduling the Fall Tour Speaker. Dr. Alexander Shedrinsky from Long Island University will give a talk entitled, "Amber, Real and Fake." It will be at 5:00 pm on Friday, September 24, at a to be determined location on the Western Michigan University Campus. It is free and open to the public.

Volunteers are being solicited for the 5th grade elementary outreach effort, "Science is Fun." This project will put chemistry demonstrations in the local public schools during the week of 18-22 October. If interested in helping out, please contact Monica Whitmire (Monica.L.Whitmire@pfizer.com), Rebecca Johnson (Rebecca.L.Johnson@pfizer.com), or Niki Waldron (Niki.A.Waldron@pfizer.com).

We are calling for next year's Executive Committee nominations. We will have openings for the positions of Chair Elect, Alternate Councilor, and Treasurer. If you are interested in serving on the EC or wish to nominate someone, please contact a current EC member as soon as possible.

Now is also time to start thinking about Chemistry Day at the museum. If you are interested in volunteering, please contact an EC member or Julie Lorenz at Julie.K.Lorenz@pfizer.com.

Patrick

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For mailing address changes, please contact Karin Kwok
(karina.kwok@pfizer.com, 833-4729)

Thirty-first Annual Kalamazoo Section Awards Banquet

On Monday, May 24, the ACS Kalamazoo Section hosted its thirty-first annual awards banquet. Awards were presented in a number of categories, including Competitive Exam Scholarship winners, Outstanding High School Chemistry Students, Outstanding College Students, Outstanding High School Chemistry Teacher, Outstanding Local Section Members, and ACS 50 year members.

Congratulations to all of the award winners!

Also, special thanks to the sponsors who help make the annual awards possible: *Pharmacia Corp., the L. Perrigo Company, the A.M. Todd Company, KALSEC, Inc. and Private Donations*

Competitive Exam Scholarship winners

Srikanth Aravamuthan - Kalamazoo Central & KAMSC, First Place (\$1,000)

Shauna Paradine – Schoolcraft & KAMSC, Second Place (\$800)

Robert Wiersema - Wayland, Third Place (\$600)

Anne Hoekstra – Loy Norrix & KAMSC, Fourth Place (\$450) (tie)

Govind Rangrass – Kalamazoo Central & KAMSC, Fourth Place (\$450) (tie)

Rishi Mediratta - Kalamazoo Central & KAMSC, Sixth Place (\$200),

Brian Magnuson - Mattawan, Seventh Place (\$200),

Kevin Melotti - Kalamazoo Central & KAMSC, Eighth Place (\$200) (tie)

Thomas Baweja – Wayland, Eighth Place (\$200) (tie)

Neil Gajare - Portage Central & KAMSC, Tenth Place (\$200) (tie)

Honorable Mention (\$100)

Mary Decker – Portage Central

Andrew Franks – Kalamazoo Central & KAMSC

Mark Griffin – Mattawan

Thomas Griffith – Mattawan

Matt Gumbleton – Loy Norrix & KAMSC

Kyle Hibbard – Plainwell

Rachel Hitow – Gull Lake

Brandon Jennings – Gull Lake

Kyle Lewis – Gobles

Phillip Timko – Vicksburg & KAMSC

Christopher Whitfield – Mattawan



Front Row: Matt Gumbleton; Anne Hoekstra; Rachel Hitow; Thomas Baweja; Govind Rangrass; Thomas Griffith; Srikanth Aravamuthan; Mary Beth Decker. *Middle Row:* Phillip Timko; Brandon Jennings; Neil Gajare; Mark Griffin; Kyle Lewis; Brian Magnuson. *Back Row:* Andrew Franks; Robert J. Wiersema; Kevin Melotti; Christopher Whitfield; Kyle Hibbard.

Outstanding High School Chemistry Students

Amanda Hodge – Allegan
Alex Sauer – Bloomingdale
Lauren Lynch – First Assembly
Travis Ransom – Galesburg-Augusta
Kyle Lewis – Gobles
Megan Vrobel – Gull Lake
Brad Mulder – Hamilton
Jessica Rewa – Hopkins
Anne Hoekstra – KAMSC

Kathy Hooeboom – Kalamazoo Christian
Kristy Garvey – Kalamazoo Hackett
Dustin Lee – Lawton
Eric Jordan Nielsen – Mattawan
Johnathon Rushing – Paw Paw
Jason Thomas – Plainwell
Mary Beth Decker – Portage Central
Robert J. Wiersema – Wayland



Front Row: Anne Hoekstra; Mary Beth Decker; Kristy Garvey; Travis Ransom; Kathy Hooeboom; Jason Thomas; Lauren Lynch. *Back Row:* Eric Jordan Nielsen; Robert J. Wiersema; Kyle Lewis; Dustin Lee; Johnathon Rushing.

Outstanding College Students



Paul Schramm, K-College
Eric Phillips, WMU

Outstanding High School Chemistry Teacher



Karen Gabrielse, Wayland High School

Outstanding Local Section Members

Dave Reinhold
Susan Stapleton

ACS 50 year member

Jackson B. Hester, Jr.

Fall Tour Speaker: Dr. Alexander M. Shedrinsky
Presenting "Amber, Real and Fake"
Friday, September 24, at 5:00pm on the WMU campus

Amber has long fascinated collectors and researchers. There is the aura of mystery associated with belief in its healing power; the variety of beautiful colors that make it so desirable for jewelry; and finally, the exquisite preservation of a great variety of inclusions, from insects to small frogs and lizards. Unfortunately, from earliest times these properties have also drawn the attention of forgers. By forgeries we mean the substitution for real Baltic amber (succinite) or other fossilized resins, of materials ranging from recent copals to synthetic polymers. Attempts to forge amber inclusions are known from antiquity. At that time, such natural materials as melted amber or copal were used.

One can prepare convincing imitations of large transparent amber pieces with a wide variety of "inclusions" (ants, bees, lizards, mosquitoes, etc.). The question of the authenticity of amber inclusions has become particularly significant in view of the recent publication by a team of scientists from the American Museum of Natural History of DNA gene fragments from an insect preserved in amber for almost 30 million years. This represents the oldest DNA ever recovered from fossils. The book and the movie Jurassic Park created enormous interest in the subject of amber. In our lecture we will try to sort out the real and imaginary aspects related to this subject. The lecture will be profusely illustrated by slides of samples from the collection of the American Museum of Natural History as well as from private collections.

Volunteers Needed for "Science is Fun" Activities at Local Area Schools

Pfizer, Inc. and the Kalamazoo Section of the ACS are sponsoring a "**Science is Fun**" program for fifth graders in the Kalamazoo and Portage area elementary schools that have low *2003 Science MEAP* scores. These half-day programs will be presented during National Chemistry Day Week (October 18-22) and is designed to get kids interested in science through various hands-on activities. Past experiments have included 1) *polymer science* (silly-putty / slime), 2) soil / water testing, 3) pH of household solvents and cleaning agents, 4) starch testing (*low carb craze*), 5) *separation science* (candy and ink using filter paper), and 6) *density science*.

Volunteers are needed to make this program a success. Please contact Rebecca Johnson (833-8653) or Monica Whitmire, (833-3619) to volunteer your time or for additional information.

Project SEED Reception at WMU

The Kalamazoo Section of the American Chemical Society will hold its annual Project SEED Reception on Thursday, the 5th of August from 5:00 PM until 6:30 PM at Western Michigan University in the Atrium on the third floor of Haenicke Hall (maps of campus can be found at the following website, <http://maps.pp.wmich.edu/KaMai/index.html>). The current SEED Students will present posters on the work they have been doing this summer.

Project SEED is a Summer Educational Experience for (economically) Disadvantaged High School chemistry students developed by the ACS. This program is aimed at creating a pool of highly motivated students from diverse backgrounds to lead our nation in chemical education, business and research. The students are paid to work side-by-side with an experienced chemical professional in a laboratory setting for eight weeks.

This program is sponsored by funds from National ACS, the local section, and donations from local companies including Pfizer Inc., Kalsec Inc., and A.M. Todd Company as well as donations from individual members.

In addition to the posters, certificates will be presented to the participants and refreshments will be served. To obtain more information about the Project SEED Program or to donate to the program please contact, Donald Schreiber at 387-2856 or by email at donald.schreiber@wmich.edu.

Call for Nominations for 2005

The KACS Executive Committee is requesting nominations for the following positions for terms starting in 2005:

Chair Elect

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Alternate Councilor

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-
- | | |
|--------------|---|
| August 5 | SEED Student Reception
Western Michigan University |
| August 5 | KACS Executive Committee Meeting, following the SEED reception |
| September 2 | KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm |
| September 24 | Fall Tour Speaker Dr. Alexander Shedrinsky
Topic: "Amber, Real and Fake"
(Patrick Irish, patrick.a.irish@pfizer.com , 269-833-6818) |
| November 6 | Chemistry Day at the Museum, Kalamazoo Valley Museum,
Noon to 4pm, (Julie Lorenz, julie.k.lorenz@pfizer.com) |

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September-October 2004



Message from the Chair Patrick A. Irish

We are entering what is traditionally a busy time for the local section. We are asking for help and participation from local section members. Ask any member that has participated in the below listed activities, and they will tell you they found their experiences fun and rewarding.

Our Fall Tour Speaker will be Dr. Alexander Shedrinsky from Long Island University and he will give a talk entitled, "Amber, Real and Fake." It will be on September 24 at 5:00 pm at 1301 Wood Hall on the Western Michigan University Campus. It is free and open to the public.

The ballots for voting for next years' officers are in this newsletter. We have candidates for the positions of Chair Elect, Councilor, and Treasurer. Please vote; it is helpful to the entire section to make your voice heard.

We are soliciting volunteers for Chemistry Day at the museum. The theme this year is Health and Wellness. The demonstrations and hands on participation events are very well received, and the event will run from noon until 4 pm Saturday November 6. If you are interested in volunteering, please contact an EC member or Julie Lorenz (julie.k.lorenz@pfizer.com, 269-833-2209)

Volunteers are still being solicited for the 5th grade elementary outreach effort, "Science is Fun." This project will put chemistry demonstrations in the local public schools during the week of 18-22 October. If interested in helping out, please contact Monica Whitmire (monica.l.whitmire@pfizer.com, 269-833-3619), Rebecca Johnson, (rebecca.l.johnson@pfizer.com, 269-833-8653), or Niki Waldron (niki.a.waldron@pfizer.com, 269-833-1975).

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Election of the KACS 2005 Officers

Below you will find a ballot for the election of officers of the Kalamazoo Section of the American Chemical Society for 2005. The offices to be filled are Chair-elect, Councilor, and Treasurer. The Chair-elect is elected for one year (the following year becoming the Chair). The Treasurer is elected for a two year term, and the Councilor is elected for a term of three years. All officers shall take office on January 1 of the year following the election and the Chair-elect for 2004, Kent Alleman will become Chair for 2005.

Complete your ballot.

Enclose the ballot in a blank envelope and seal it.

Place the blank envelope containing the completed ballot in a second envelope.

Write your signature on the outside of the second envelope.

Address the second envelope to:

*Mr. Patrick Irish
Pfizer
0200-259-277
7000 Portage Road
Kalamazoo MI 49001-0199*

The KACS bylaws allow for counting only those ballots which are received sealed in an unmarked envelope which in turn is enclosed in another envelope with your *signature* on it. All ballots must be received by 5 pm on **October 31, 2004** in order to be tallied. Thank you for your prompt response .

2005 Election Ballot

Chair-Elect

Michael L. Kiella

Councilor

Dean W. Cooke

Treasurer

Shawn P. Hawk

2005 ACS Kalamazoo Local Section Election

Biography of Candidates

Candidate for Chair-Elect: Michael L. Kiella

Michael Kiella is currently employed as a Team Leader in the Pfizer Global Manufacturing - Quality Operations-Compliance Management Group. Prior to work in Quality Operations, he was an Associate in Physical and Analytical Chemistry Research at Pharmacia & Upjohn working in the lab of Dr. Jack DeZwaan. Michael is in his 19th year at Pfizer, dating back to the legacy Upjohn Company. He began his career in the pharmaceutical industry in the lab of Gary Boerner at the Perrigo Company in Allegan Michigan.

He is a 16-year member of the Kalamazoo Section of American Chemical Society and is concluding his third term as Treasurer of the Executive Committee. Michael is Industry Advisor to the Western Michigan University Student Affiliates and ChemClub. He co-chairs the Local Section Government Affairs Committee with Dr. John Stodola. Michael holds an Associate of Science Degree from Kalamazoo Valley Community College and a Bachelor of Science Degree from Western Michigan University. His degree from Western Michigan University includes studies in Business Management at the Haworth College and publication in reviewed international literature. Michael's *away-time* is spent reading (essays and short fiction), and traveling with his family. He tutors mathematics and chemistry from his home.

Mr. Kiella lives in Allegan with his wife, Barbara, and daughter, Kelsey. Their son, Matthew, attends Western Michigan University, making his family a four-generation tradition at Western.

Candidate for Treasurer: Shawn P. Hawk

Shawn Hawk is a native of Schaumburg, IL. He has served honorably in the United States Navy and continues to serve in the Illinois Air National Guard. Shawn started at the University of Illinois-Champaign/Urbana in 1999 and graduated with a Bachelor of Science in December 2003. He spent three semesters working with Dr. Mary S. Gin researching the synthesis of ion channels. Shawn has been an active member of ACS for two years, first with the student affiliates at the University of Illinois, and now with the Kalamazoo local section. He is serving on the Boy Scout Merit Badge Committee. Throughout the years, Shawn has volunteered for many organizations and currently volunteers as a Big Brother and presenter for Junior Achievement. Shawn Hawk is currently employed as a Quality Control Chemist -Kalamazoo Active Pharmaceutical Ingredients.

Candidate for Councilor: Dean W. Cooke

Dean Cooke became a member of the ACS in 1956, his first year as a graduate student at the Ohio State University. He received his PhD in Inorganic Chemistry in 1959 and accepted a teaching position in the Chemistry Department of the University of Michigan that fall. After teaching there for seven years he accepted a position in the Chemistry Department at Western Michigan University where he taught for twenty nine and one half years, retiring as Emeritus Professor in Chemistry in January, 1996. In the latter years of his teaching career he became interested in bringing chemistry to elementary school teachers and taught several courses and gave many workshops on that topic.

He joined the KACS in 1966 and soon became chair of the Education Committee of the section, a position that he held off and on until 2001. In 1975, he served the section as Chair and in 1978 he became one of the two Councilors who serve the section on the national level. At the end of 2004, he will have served for 27 years in that position. On the national level he has served on several committees including two elected committees.

Project SEED Concludes Another Successful Year

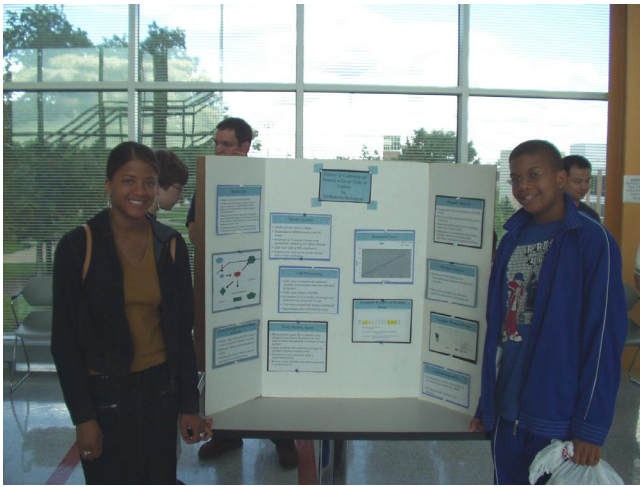
This past summer four area high school students spent their summer in the Chemistry Department at Western Michigan University participating in the ACS's Project SEED (Summer Educational Experience for the Disadvantaged) Program. Project SEED is part of the American Chemical Society's (ACS) commitment to the development of a scientific work force that is more broadly representative of the American population. The program was established in 1968 by the ACS to help expand the career outlook of high school students from families defined as economically disadvantaged by federal poverty guidelines. Students are paid a stipend for working in a chemistry related laboratory. The local program has been sponsored by the Kalamazoo Section of the ACS on a grant from the National Society for the last thirteen years. During this time over fifty high school students have been placed in academic and industrial laboratories in Kalamazoo and the surrounding area.

To qualify the students must have completed their sophomore year in good academic standing, have taken at least one course in chemistry and be recommended by their chemistry teacher or other school official. Students are selected based on their qualifications and letters of recommendation. This past summer the program kicked off in early June, and went through first week in August. This year three students participated in the program for the first time. They were Andrey Malyutin, Kaushik Sarkar, and Ebony Willhite, all students at Kalamazoo Central High School. Andrey worked on the "Synthesis of Gold Silica Nano Particles" with Dr. Subra Muralidharan, Kaushik worked on the "Synthesis of Chiral Phosphorus Ester Ligands" with Dr. James Kiddle, while Ebony joined Dr. David Huffman's group studying the "Cloning of Wilson's Disease Multi-Domains 4-5 & 4-6." The fourth student, DeShawna Stevenson, from Kalamazoo Central High School was returning to the program for her second year, working with Dr. Susan Stapleton. DeShawna's project was entitled the "Effects of Cadmium on Proteins in Liver Cells in Culture."

Matching funds for the grant have come from a number of local donors over the years, including most recently, A.M. Todd Company, Kalsec Inc. and Pfizer Inc. Companies or individuals interested in donating to or who want more information about the local Project SEED Program should contact:

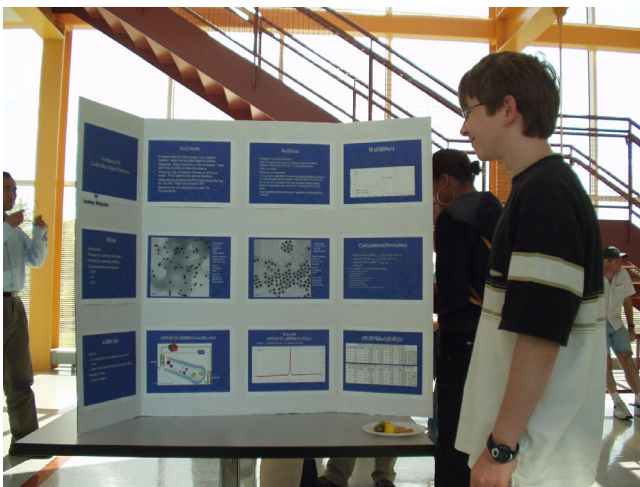
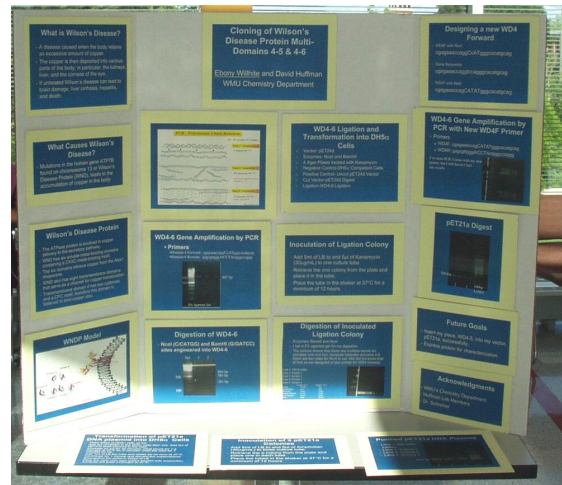
Dr. Donald Schreiber
Chemistry Department
Western Michigan University
1201 Oliver St.
Kalamazoo, MI 49008
Tel: (269) 387-2856
FAX: (269) 387-2909
Email schreiber@wmich.edu

Pictures from the Project SEED Reception



← DeShawna Stevenson presents her project with her brother Tony.

A project on Wilson's Disease →



← Andrey Malyutin presenting his "The Synthesis of Gold Silica Nanoparticles".



Chemistry Day at the Kalamazoo Valley Museum

Saturday, November 6, 2004

The National Chemistry Week theme for 2004 is "Health and Wellness". Please be thinking of experiments that you would like to share during our annual Chemistry Day at the Museum event on November 6 from Noon to 4:00pm.

We need the list of experiments and demonstration leaders by October 1.

If you're interested in participating please contact Julie Lorenz (269-833-2209 or julie.k.lorenz@pfizer.com).

http://www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=new\new_index.html

Volunteers Needed for "Science is Fun" Activity at Local Area Schools

Pfizer and the Kalamazoo section of the ACS are sponsoring a "Science is Fun" program for 5th graders in the Kalamazoo and Portage area elementary schools that have low 2003 Science MEAP scores. Half-day programs will be presented during National Chemistry Day week (October 18-22) and is designed to get kids interested in science through various hands-on activities.

If you have any ideas on programming or would like to volunteer, please contact Rebecca Johnson (Rebecca.L.Johnson@pfizer.com, 269-833-8653), Monica Whitmire (Monica.L.Whitmire@pfizer.com, 269-833-3619), or Niki Waldron (Niki.A.Waldron@pfizer.com, 269-833-1975) for more information.

Fall Tour Speaker: Dr. Alexander M. Shedrinsky **“Amber, Real and Fake”**

Friday, September 24, 5 pm

1301 Wood Hall Western Michigan University

For directions to WMU refer to link <http://maps.pp.wmich.edu/KaMai/index.html>

Abstract

Amber has long fascinated collectors and researchers. There is the aura of mystery associated with belief in its healing power; the variety of beautiful colors that make it so desirable for jewelry; and finally, the exquisite preservation of a great variety of inclusions, from insects to small frogs and lizards. Unfortunately, from earliest times these properties have also drawn the attention of forgers. By forgeries we mean the substitution for real Baltic amber (succinite) or other fossilized resins, of materials ranging from recent copals to synthetic polymers. Attempts to forge amber inclusions are known from antiquity. One can prepare convincing imitations of large transparent amber pieces with a wide variety of "inclusions" (ants, bees, lizards, mosquitoes, etc.). The question of the authenticity of amber inclusions has become particularly significant in view of the recent publication by a team of scientists from the American Museum of Natural History of DNA gene fragments from an insect preserved in amber for almost 30 million years. This represents the oldest DNA ever recovered from fossils. The book and the movie Jurassic Park created enormous interest in the subject of amber. In our lecture we will try to sort out the real and imaginary aspects related to this subject. The lecture will be profusely illustrated by slides of samples from the collection of the American Museum of Natural History as well as from private collections.

Speaker Biography

Alexander M. Shedrinsky graduated from the Chemistry Department of Leningrad State University in 1965. He continued his studies there and completed his postgraduate study in polymer chemistry in 1970. He was a lecturer in organic and general chemistry at Leningrad North-West Polytechnical Institute, First Leningrad Medical Institute, and Leningrad Pharmaceutical College. Dr. Shedrinsky continued his graduate studies at New York University, completing his M.S. in 1983 and his Ph.D. in 1986 in synthetic organic chemistry. He was Charles and Francis Atkins Fellow at the Paintings Conservation Department of the Metropolitan Museum of Art from 1984 to 1986, and a Postdoctoral Fellow at the Conservation Center of the Institute of Fine Arts of New York University from 1986 to 1988. He was Andrew Mellon Fellow at the Objects Conservation Department of the Metropolitan Museum of Art (1988-1990) while continuing as an assistant professor of chemistry at the Brooklyn Campus of Long Island University and a Kervorkian Fellow at the Conservation Center of the Institute of Fine Arts of New York University (1990-1992). Presently, Dr. Shedrinsky is a professor of chemistry at Long Island University and an adjunct professor of conservation at the Conservation Center of Institute of Fine Arts (NYU). Dr. Shedrinsky was a Fulbright Professor during the spring semester of 1995 at the Academy of Arts, St. Petersburg, Russia, teaching a course on Organic Chemistry of Museum Objects and a Forchheimer Visiting Professor at the Hebrew University of Jerusalem during spring semester of 1997. Professor Shedrinsky specializes in pyrolysis gas chromatography of organic materials of art and archaeology. His skills and knowledge have been sought in the analysis of a variety of subjects, such as materials from the Sistine Chapel, Egyptian oil of archaeological interest, and Italic amber carvings from the J. Paul Getty Museum, to name but a few. During the last ten years, his research interests have been heavily concentrated on the analysis of different ambers and amber look-alike materials.



2004 KACS Calendar

Contact the person in parentheses to answer questions or to volunteer

-
- September 24 **Fall Tour Speaker: Dr. Alexander M. Shedrinsky**
Topic: Amber, Real and Fake
Western Michigan University, 1301 Wood Hall, 5:00 pm
(Patrick Irish, patrick.a.irish@pfizer.com, 269-833-6818)
- October 7 **KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm**
- November 4 **KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm**
- November 6 **Chemistry Day at the Kalamazoo Valley Museum, noon-4:00 pm**
Theme: Health and Wellness
(Julie Lorenz, julie.k.lorenz@pfizer.com, 269-833-2209)
- December 2 **KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm**
-

KACS Website Address: <http://www.wmich.edu/acs/>

*KACS
c/o S. Karina Kwok
Pfizer
Mail Stop 0200-89-1
7000 Portage Road
Kalamazoo, MI 49001-0199*

Please contact Karina Kwok at karina.kwok@pfizer.com if you prefer to receive your newsletter by email.

KALCHEMIST NEWS

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Kalamazoo, MI
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<http://www.wmich.edu/acs/>

November-December, 2004



Message from the Chair Patrick Irish

Fall is upon us and the leaves are mostly gone. Why did they change color? Where did the reds and yellows come from, or were they there all along? Hint: this makes a great paper chromatography experiment.

The ballots for voting for next years' officers have been received, and were tallied at the EC meeting on the 4th of November. Please congratulate your new chair elect Mike Kiella, your new treasurer Shawn Hawk, and your continuing councilor Dean Cooke.

Saturday November 6th was Chemistry Day at the museum. The theme this year was Health and Wellness. The demonstrations and hands on participation events were very well received, and the event had about 1000 people attend. Please read about it later in this newsletter, and thank our coordinator Julie Lorenz for her hard work and a successful event. Thanks also to the many volunteers that helped with demonstrations, setup and takedown, and traffic control.

Those who volunteered are pretty happy with the success of the 5th grade elementary outreach effort, "Science is Fun." This project put chemistry demonstrations in the local public schools during the week of 18-22 October. The reports from the volunteers are that the students were very enthusiastic, as were the teachers. If interested in helping out with future outreach efforts, please contact Monica Whitmire, Monica.L.Whitmire@pfizer.com, Rebecca Johnson, Rebecca.L.Johnson@pfizer.com, or Niki Waldron, Niki.A.Waldron@pfizer.com.

I have thoroughly enjoyed my tenure as your chair, and wish my successor Kent Alleman a good year as well. Please assist him in his efforts by attending meetings and volunteering to help with local section activities.

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Science is Fun!

“Science is Fun” is a program sponsored by Pfizer and the Kalamazoo section of the ACS for 5th graders in the Kalamazoo and Portage area elementary schools that have low 2003 Science MEAP scores. Half-day programs were presented during National Chemistry Day week (October 18-22) and were designed to get kids interested in science through various hands-on activities.

If you have any ideas on programming or would like to volunteer, please contact Monica Whitmire (Monica.L.Whitmire@pfizer.com, 269-833-3619), Rebecca Johnson (Rebecca.L.Johnson@pfizer.com, 269-833-8653), or Niki Waldron (Niki.A.Waldron@pfizer.com, 269-833-1975) for more information.



Monica Whitmire helps students solve a fictitious crime using concepts of forensic science and A, B, O and Rh_o blood typing. The crime was a robbery. The evidence: a blood-stained broken window. Students attempted to match the blood sample found at the crime scene to the blood types of four suspects.

Who knew that separating colored ink could be so much fun? Pfizer volunteers **Jeff Poliak** (right) and **Syed Hasan** (far end of table) introduced the students to separation science by performing paper chromatography. Looking on at left is a Woods Lake teacher.



Chemistry Day 2004

KACS co-hosted another successful Chemistry Day with the Kalamazoo Valley Museum. We had over 25 demonstrations, 200 volunteers, and 1000 visitors. The theme this year was "Health and Wellness." In addition to the old favorites, new experiments included demonstrations on: sunscreen, hand washing, tablet making, Vitamin C, iron in cereal, forensic science, the biological microworld and more. We were even featured on the 11 o'clock news!

Thanks to all of the great volunteers and companies that donated supplies:

Kalamazoo College

Joclyn Davis
Samantha Weaver
Sarah Booth
Emily Cornwell
Nick Beimer
Andrea Yancon
Brendan Butler
John Hofferberth
Kristin Hofferberth
Hoan Nguyen
Vanessa Wyant

Kalamazoo Valley Community College/Kalamazoo Valley Museum

Annette Hoppenworth
Lydia Hines (Wally and
daughter)
Charissa Oliphant
Kathy Smith
Derek Crouch
Corey Lee
Tim Caldwell
Amanda Chopp
Jessica Buchanan
Whitney White
Claudia Flores
Kristine Newton
Christine Schaefer
Christine Noak
Dawne Aumann
Kathy Taylor
Jason Koenig

Pfizer

Scott Aldrich
Mary Aldrich
Jill Alge
Angela Anson
Christopher Glass
Leslie Hawley
Patrick Irish
Rebecca Johnson
Karina Kwok
Ben Maxey
David Russell
Cliff Sacks
Carl Stachew
Julie Wittbrodt
Kent Alleman
Stacy Bailey
Julie Bauer
Kim Greve
Christos Spilson
Lori Todd
Mike Dunn
Derrick Townsend
John Stodola
Monica Whitmire
Shawn Hawk
Niki Waldron
Jay Patterson
Sheila Deneau
Michael Stallings
Julie Lorenz

Western Michigan University

Donald Schreiber
Christian Schreiber
(Portage Northern)
Curtis Deer
Beth Sodt
John Beck
Kyle Weber
Jacob Wood
Andy Whiteman
Ryan Davis
Matt Suo
Rachel Hagenstein
Hugh Little
Allison Fillwock
Brad Neuder
Eric Statler
Jordan Cole
Riley Pepper

Other Affiliations

Blue Heron
Academy/Dan Morris
Sheryl Loux
Erik Johnson
Sharon Barbour
Beatrice Hinton

Kalamazoo Area Mathematics and Science Center

Joe Thorstenson
Ryan James
Hussian Turk
Madeline Nykaza
Eneke Mwakasisi
Jeremy Liggett
Sri Aravamathan
Ben English
Ewa Slotwinski
Jessica Song
Sara Morgan
Meisha Merati
Matt Gumbleton
Jasmine Zheng
Nora Kuiper
Scott Beck
Tim Caldwell
Matt Hambright
Melissa Camhi
Jesse Baker
Andy Ingebritson
Christina Deleeuw
Sara Maihofer
Caitlin Kelly
Rupal Patel
Nicole Rodia
Amanda Rutishauser
Mae Neuman
Kayla Waldron
James Nichols
Hannah Lucero
Jeffrey Osowski
All the KAMSC
sophomores who baked
cupcakes!

We also thank Pfizer, KVM, Rohm and Haas, and Rx Optical for donating supplies for the demonstrations.

And special thanks to our Chemistry Day coordinator Julie Lorenz for all of her hard work!

Highlights from Chemistry Day 2004



Dancing Milk!

A KVM volunteer, Sheila Deneau, Kent Alleman, and a WMU student demonstrate how to make milk dance using chemistry.

Wash your hands!

Charissa Oliphant, Allison Fillwock and Brad Neuder.

A lotion containing “pretend germs” is spread on the childrens’ hands. After the children have washed their hands, an ultraviolet light is used to see if any “pretend germs” remain. Any areas that are not washed well would glow under the ultraviolet light.



Chemiluminescence

Kristin Hofferberth is introducing the concept of chemiluminescence to the audience.

Liquid Nitrogen

Dave Russell and Leslie Hawley

Dave is filling up a dewar with liquid nitrogen in preparation for the demonstration.



Forensic Science – An Investigation *Cliff Sacks*

The “investigators” are briefed about the crime scene.

Slime!

WMU student affiliates

WMU student affiliates of the American Chemical Society are assisting the visitors in making slime.



Councilor's Report of the 228th ACS National Meeting Philadelphia, Pa August 22-26, 2004.

This is the first part of the report from our councilor Dean Cooke from the ACS National Meeting in Philadelphia. The second part of the report will be published in the next issue of the newsletter.

REPORT OF THE PRESIDENT

President Casey discussed some of his activities. In April he joined with 30 ACS members in meeting with senators and representatives to advocate for increased support for basic research through the Department of Energy, Office of Science. This resulted in a 3% increase of the budget for the Office of Science. President Casey inaugurated a new program called the Academic Employment Initiative which is a pilot program aimed at broadening the faculty recruiting process. He also would like to see green chemistry incorporated to a greater extent in our undergraduate and graduate education.

REPORT OF THE PRESIDENT-ELECT

President-Elect Carroll outlined the three agenda areas that will be themes for his year as president. 1. Enterprise 2015 which will look at the changing nature of the Chemistry Enterprise in the US- in industry, education and government. 2. Encouragement of high school teachers at national and regional meetings. 3. Outreach, particularly with regard to the public's perception of chemists and chemistry.

REPORT OF THE IMMEDIATE PAST PRESIDENT

Past President Reichmanis described some of the activities that highlighted her year as president. She has committed herself to communicating with top executives in the industries where our members are employed. Because our members are increasingly being classified with job titles that don't include the word "chemistry", it is important that the ACS support all professionals working in chemistry and expand the multidisciplinary activities of the Society.

ACTIONS OF THE BOARD

The Board's Committees and Task Forces

- The Board received a progress report from its task force on strategic alliances, which is drafting a framework "stage gates" of sequential decisions to guide the Society as it pursues new endeavors. The Board also was updated on its continued discussions with the American Institute of Chemical Engineers.
- Earlier this year a task force on ACS development activities began studying opportunities for an expanded development program at the Society. At this meeting, the Board voted to centralize and expand the Society's development activities, effective January 1, 2005.

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.
- On the recommendation of the Society's Budget and Finance Committee, the Board voted the following actions: to include funding for ChemCensus 2005 in the '05 proposed budget at a cost of \$229,000; to fund the PROGRESS Project in the proposed 2005 budget at a cost of \$160,000, \$94,000 in 2006, and \$98,000 in 2007; and to defer consideration of the Leadership Development Project for further clarification of the project's focus and metrics and to resubmit a modified proposal at the earliest opportunity.

ACTIONS OF THE COUNCIL

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 ethics-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.

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.



2004-2005 KACS Calendar

Contact the person in parentheses to answer questions or to volunteer

-
- December 2, 2004 KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm
- January 6, 2005 KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm
- February 3, 2005 KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm
- March 3, 2005 KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm
- April 7, 2005 KACS Executive Committee Meeting, Pfizer B126 CR, 5:00pm
- April 19, 2005 **Spring Tour Speaker**
"The Chemistry of Wine"
J. Ernest Simpson - California State Polytechnic University
(Kent Alleman, kent.s.alleman@pfizer.com, 269-833-5396)

KACS Website Address:

<http://www.wmich.edu/acs/>

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