

October Section Meeting: The Science of Magic

Place: University of Detroit-Mercy, Chemistry Building (see page 11 for map)

Date: Thursday, October 12, 2006

Time: 6:00 PM

On Thursday, October 12th, at 6pm, Dr. John Fortman of Wright State University and of the ACS Speakers Bureau will present, "The Science of Magic," at the University of Detroit Mercy. Come to the Chemistry Building to enjoy the talk. If you have never been to UDM, the location is the campus at the corner of McNichols and Livernois. The building isn't far from either gate, and is only a gate-guard-question away. Come see Dr. Fortman's exciting presentation, and chat with friends and colleagues. Light refreshments will be served before hand. RSVPs are not strictly necessary, but to help us get a count for the food, please e-mail Mark Benvenuto at: benvenma@udmercy.edu. Hope to see you there.

Abstract: Magicians use the wonders of science to entertain but always keep the explanation or secret of their tricks from the audience. Science teachers use the wonders of science in demonstrations to develop interest in students but should also explain the mystery or principles behind their tricks. In this talk, the scientific explanations of the "magic tricks" shown will be presented in an educational fashion. Learn the science behind such tricks as the burning book, the non-burning cloth, the tablecloth pull, the heavy newspaper, the bottomless bottle, the egg in the bottle, the lidless bottle, the magic flask, the genie in the bottle, the rainbow liquid, and the needle thru the balloon.

The Speaker: John Fortman is Professor Emeritus of Chemistry at Wright State University where he retired in 2001 after 36 years of teaching freshman and inorganic chemistry. In 1998 he was appointed the Robert J. Kegerreis Distinguished Professor of Teaching and won seven different teaching awards over the years at Wright State. In 1998 he received the CMA Catalyst Award for Outstanding Teaching of College Chemistry. Dr. Fortman received his B.S. from the University of Dayton in 1961 and his Ph.D. in physical inorganic chemistry from the University of Notre Dame in 1965. He has published over 50 papers in chemical education in addition to his research publications. With Ruben Battino he has produced three sets of videotapes which contain over ten

*ANACHEM and the Young Chemists Com-
mittee, Detroit ACS TOUR OF THE
ROYAL OAK BREWERY*

Place: ROYAL OAK BREWERY
215 E. Fourth Street, Royal Oak, Michigan (see
page 11 for map)

Date: Tuesday, October 17, 2006

Time: 6:00 PM

The ancient art of brewing beer is always fascinating. And, for most people, the end product is very enjoyable. In the hands of an expert, grain and other ingredients are transformed into a delicious drink. Success depends on the right equipment, a thorough knowledge of ingredients and processes, and the special skills that are acquired through training and experience. We are fortunate to have several excellent local breweries and brewers in the Detroit area. (See, for example, www.beercos.com.) One of the best of those establishments is the Royal Oak Brewery. Operating since 1995, the brewery has won national awards, including the prestigious Gold Medal Award at the 2005 Great American Beer Festival.

In October we have the opportunity to tour the Royal Oak Brewery and learn something about the ancient art and modern science of making good beer. Todd Parker will be our host. After the tour you are invited to stay for dinner and sample one or more of the outstanding beers that the Royal Oak Brewery has to offer. The evening should be a lot of fun!

Reservations: Please make your reservation for this event by calling Ed Havlena at 313-393-3685. Leave your name and number. Alternatively, email to Havlena@detroitsection-acs.org. Call or email as soon as possible because the number of reservations is limited.

Location and Directions: The brewery is located at 215 E. Fourth Street in downtown Royal Oak. Most parking is metered, so be prepared. A map is included below. From I-696 take exit 16 (M-1, Woodward Ave., Detroit Zoo) onto 10-mile Road. From 10-mile Road go north on Main Street and turn right on Fourth St. The brewery and restaurant are a short distance from Main Street.



Kids & Chemistry – Fall 2006

Another Successful Program: First of all, we would like to thank those volunteers who helped make our September 14 program at the Rouge River Water Festival at Cranbrook Institute a great success. This was the third year that we participated. Our program started with some acid/base demonstrations by Emil Lozanov, which really "wowed" the kids, teachers and parents in attendance. Emil tied the demonstration to our regular hands-on pH experiment. We had a busy schedule of 7 classes with between 11 and 28 5th graders in each. Overall, there were approximately 150 students participating. We thank Christine Utter (GE Plastics) for organizing the program; to Emil Lozanov (WSU) for his special additions to the program, and to the rest of the volunteers: Irina Piuture (WSU), Don Ray (Ford/Visteon ret'd), Angela Allen (UofM-Dearborn) and Joanna Szajnar (Cranbrook).

Thanks Henkel!!: The Kids & Chemistry program is very pleased to announce that it was recently awarded a grant for approximately \$2100 from Henkel's MIT Children's. This grant will allow us to restock our supply cabinet and to consider additional programs as well as to upgrade some current programs. We are especially appreciative of the efforts of Gina Ludwig and helping us obtain this funding.

National Recognition (again): At the recently completed ACS national meeting in San Francisco, the efforts of the Detroit Kids & Chemistry program was once again recognized with the Outstanding Kids & Chemistry Program Award (best in the nation!). This is the 3rd time that we have received this award. A pat on the back to all of last year's organizers and volunteers who made this recognition possible.

Programs on October 22 & November 18: Kids & Chemistry will be participating in two more programs this fall. On Sunday, October 22 we will be participating in the hands-on National Chemistry Week program at the Cranbrook Science Institute. The program will run from 12:00 – 4:00. Denise Grimsley (BASF) is the organizer. You can reach her by e-mail at denise.grimsley@basf.com.

We will also help with the hands-on experiments at the special program with the girl scouts on Belle Isle on Saturday, November 18 from 8:00 AM to 1:00 PM (see page 4 for more details). If you can help, you can contact Mary Kay Heidtke (Magni Ind.) at MKHeidtke@aol.com or Megan Klein (Ash-Stevens) at kleinmegan@comcast.net.

If you are interested in joining us for any of these programs or if you would just like to be added to our e-mail list for notification of future happenings, send your name and e-mail address to Walter Siegl at wsiegl@sbcglobal.net or to Gina Ludwig (Henkel) at regina.ludwig@us.henkel.com. We always welcome new volunteers.

Thanks for reading, Walter Siegl

Welcome to New Section Members

The following people have recently joined the Detroit Section.
Please welcome them to the Section:

Volunteers Needed for the

Dana Adkinson
Deborah L Barnhart
Cunshun Bartley
Jenny S J Chia
Teresa A Christner
Linda M Gao
Amanda Goldman
John D Herr
Gregory C Hordos
Achani K Huang

Richard W Korc
David M Mc Cahill
Yee Ho Oblak
Rob Qasqas
Lin Schalk
Vincent J Schwartz
Michael T Welch
Stephen Michael Wilson
Neil R Yatawara



2006 National Chemistry Week Celebration

National Chemistry Week runs from October 22 through October 28. The theme for this year's National Chemistry Week is "Your Home – It's All Built on Chemistry." Our Detroit section will be setting up a program at Cranbrook Science Museum on Sunday, October 22 from noon to 4:00 PM. The student affiliate group from University of De-

troit-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 building homes, home safety, and conservation. Parents will also learn the benefits that chemistry has brought to their homes. 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:

denise.grimsley@basf.com.

Volunteers Still Needed for Chemistry Day

What: Chemistry Day at Belle Isle!
When: Saturday, November 18, 2006
Where: Belle Isle "Casino" Detroit, Michigan
Time: 8:00 AM – 1:00 PM

The Detroit Section of the American Chemical Society's Minority Affairs Committee is partnering with the Girl Scouts of Metro Detroit for Chemistry Day at Belle Isle. We need ~20 - 25 volunteers to participate in demonstrating hands-on experiments and overseeing a community service project. The event is scheduled for Saturday, November 18 from 8:00 AM to 1:00 PM. We would especially welcome women and minority chemists who could help serve as role models for the girls. Your help will be greatly appreciated!

If you are interested in joining some of your fellow chemical professionals in a fun morning of community service, please contact Mary Kay Heidtke at mkheidtke@aol.com or 313-843-7855. A continental breakfast and lunch (pizza) will be provided.

(Dr Fortman—Continued from page 1) hours of chemical demonstrations for use at middle school through college levels. For over 25 years he has done chem demo outreach shows for middle and high school students in the Dayton area and continues to inspire and fascinate over 7500 students each year with at least 15 shows. He has done workshops on teaching and demonstrations around the country. He has designed alternative courses for general chemistry, elementary chemistry and chemistry for elementary education majors. His course for non-science students was cited as a model in the 1990 AAAS report on "The Liberal Art of Science: Agenda for Action". The alternative general chemistry course was developed while he was a member of the General Chemistry Task Force of the ACS Division of Chemical Education and starts with organic and biochemistry moving through materials and finishing with energy while empathizing applications and bringing in only those principles that are needed as they are necessary. The course has been characterized as being taught inside-out, upside-down, and backwards. His interests in addition to demonstrations and course content and organization include the use of analogies and videotaped material. John has been an ACS member since 1962 and was Councilor for the Dayton Local Section from 1996 to 2004. Since he became an ACS Tour Speaker in 1991 he has given over 280 section talks, visiting 161 of the 189 different local sections while doing 57 tours including all 28 different tours at least once. He has presented in all 50 states and Puerto Rico.

2006 ANACHEM Symposium
Thursday, November 9, 2006
Burton Manor

Call for Poster Presentations
Call for Student Presentations

You are invited to submit titles of presentation to be include in the poster session of the 2006 ANACHEM/SAS Symposium. Presentations on any topic in analytical chemistry will be considered. If you are presenting a paper at FACSS, ACS, or any other national meeting, please consider submitting your title here as well. The poster session is an excellent opportunity to share your research with the local analytical community. Graduate and undergraduate students are encouraged to participate both in the poster session and in an oral session highlighting the academic research at local universities.

The 2006 ANACHEM/SAS Symposium will be held on Thursday, November 9, 2006 at Burton Manor in Livonia. A plenary lecture will be given by Professor Mary Wirth from University of Arizona, the 2005 recipient of the ANACHEM Award. Besides the student session and the poster session, the symposium will feature sessions on biotechnology, mass spectrometry and environmental science. As in past years an award will be given for the best student presentation. The Symposium will also include an instrument exhibit and workshops on.....

Titles and abstracts will be accepted through October 15, 2006. Send your titles and abstracts to Patricia Coleman at
pcoleman@chem.wayne.edu

For questions about the exhibit contact Michael Iglehart at
igleham@basf.com.

Keith Williams given Detroit Section Minority Affairs Advancement Award

The Minority Affairs Committee of the Detroit Section of the ACS took the opportunity this past year for the first time to reward and acknowledge outstanding service in the area of minority advancement in Chemistry. Persons, Companies, and Groups nominated for this reward have shown outstanding commitment to elevation of minorities in the area of Chemistry. After all nominations and votes, were tallied the first recipient of the annual “Detroit Section Minority Affairs Advancement Award” was **Professor Keith Williams** of Wayne State University. Keith has a whole list of accomplishments. Some but not all are listed below.

PROFESSIONAL PREPARATION

Keith has studied at Wayne State University Detroit, Michigan for a Bachelor of Arts in Chemistry Degree received May 1986; a Master of Science in Physical Chemistry Degree received December 1991 and a Doctorate in Education in Evaluation and Research (Measurement track); received December 2005

TEACHING EXPERIENCE

Keith’s many teaching projects have clearly advanced the education of minority students:

- Henry Ford Community College –August 2005 – present; Partners Plus- Performed all duties associated with the teaching a first year first semester introductory chemistry course.
- WSU Upward Bound Program July 2000 – Present, Lecturer and facilitated the laboratory component for the physics course for high school participants in a six week program
- Wayne Excel June 1997 - August 1998 Develop chemistry lecture and laboratory component for incoming freshman students
- ACT Preparation Course Spring 1995 – Present, Lecturer Mathematics and Science Reasoning components
- WSU Engineering Summer Academy June 1994 – Present,

(Continued on page 8)

(Minority Affairs Award, Continued from page 7)

Assist in the structure and presentation of a freshman chemistry head start component

- Salvation Army Denby Center Tutorial Program July 1994 - December 1994, Mathematics tutor for students enrolled in the program.
- NOBCCChE Science Training Apprenticeship Research Students (STARS) February 1993 – Present, Lectured overviews in various areas of science such as mathematics, physics, meteorology and chemistry.
- American Chemical Society Project Summer Educational Experience Disadvantaged Students (SEED) June 1993 – Present, Structured high school program that involves assignment of selected students to laboratory research assignments
- WSU/NOBCCChE September 1990 - Present. Tutored college subjects and workshops such as Calculus, Physics, Chemistry, Stress management, Test taking logic, How to study, and Time management.
- Hartford Memorial Baptist Church, September 1988 – Present, Tutor for citywide tutorial service, public school grades K-12th.

SYNERGISTIC ACTIVITIES

Keith directs the Office of Minority Student Initiatives Department of Chemistry Wayne State University is a project that has multiple objectives:

- Assist students enrolled in science courses
- Advise selected student organizations in the WSU College of Science
- Develop targeted programs outside of WSU College of Science
- Recruit students into the Chemistry curriculum at the undergraduate and graduate levels.
- Develop programs to reinforce the science taught primarily in the Detroit Public School System.

These aspects of the project give the WSU Department of Chemistry Minority Student Initiative and particularly WSU students an opportunity to develop as scientific professionals, participate in community service, travel to conferences, obtain Summer internships, employment at WSU and mentor grade school students.

Keith has developed the following programming offered on a year round basis to pre-college students including:

- American College Test Preparation Course (1994)
- Science Training Apprenticeship Research Students (STARS) Program (1996)
- Science Project Developmental Workshops (1996)
- Science Bowl (1994)
- Chem. Demos (1992)
- Project SEED (1992)
- Detroit Area Pre-College Engineering Summer Enrichment (DAPCEP)/ Upward Bound Summer Enrichment (1996)



Portrait of a volunteer – Emil Lozanov

Emil Lozanov operates as sort of a chemistry ambassador to young people. We recognize Emil here for his generous donation of time and talent to our Kids & Chemistry and National Chemistry Week programs as well as to science literacy in the greater-Detroit community. In addition to being one of our regular volunteers, he has contributed a number of special demonstrations and chemical magic shows.

Professionally, Emil, who earned his PhD in textile and fiber engineering from the University of Technology and Metallurgy, Sofia, Bulgaria, has been working at Wayne State University as an Academic Services Officer in the Science Support Services Department. At Wayne he manages the chemistry solution room, presents chemistry lecture demonstrations, advises TAs on the lab content and maintains nine undergraduate chemistry laboratories.

Emil started working with kids in 1992 by assisting Joe Oravec of WSU in presenting chemistry demonstrations at schools and at the National Chemistry Week program at Cranbrook. Three years later he developed a science literacy program for kids and adults based on using entertaining chemistry demonstrations. He also began conducting hands-on activities for students from metropolitan Detroit. He has now given chemistry magic demonstrations at more than 50 Detroit-area schools. He has also made presentations at many WSU campus programs. In addition, Emil has given demonstrations, conducted hands-on activities, and presented chemistry magic shows at places like The Children's Center of Detroit, Detroit Institute of Children, and the Salvation Army Center. He has a thick folder of letters of praise and appreciation from students, teachers, parents, and community organizers.

He also teaches, consults, and prepares chemistry materials for students, science teachers, and parents from the Detroit schools. These materials enable their users to conduct classroom demonstrations and science fair projects. He is a helping hand for the ACS student affiliates at WSU and for students from the WSU/DPS GK-12 Science Teaching Fellowship program. On top of all that, Emil participates as a docent in the New Detroit Science Center, where he has given chemistry magic shows and has conducted workshops.

Emil considers himself to be science activist, promoting science literacy by giving talks and demonstrations for the purpose of inspiring kids and students to pay more attention to science and chemistry in particular.

Emil lives in Sterling Heights and has two sons, one a working student and the other a senior research and development scientist. We invite you to come out to one of our volunteer programs; you're likely to find Emil there.

Calendar of Upcoming Events

October 12, 2006	“The Science of Magic” (See pages 1, 5 and 11 for details)
October 17, 2006	YCC/Anachem brewery tour event in October at the Royal Oak Brewery (See See pages 2 and 11 for details)
October 22, 2006	National Chemistry Week Celebration at Cranbrook (See pages 4 for details)
November 18, 2006	Chemistry Day at Belle Isle (See page 5 for details)
November, 2006	Anachem symposium (See page 6 for details)
March 2007	Professional Development Conference: (Details to be announced)

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-acs.org>

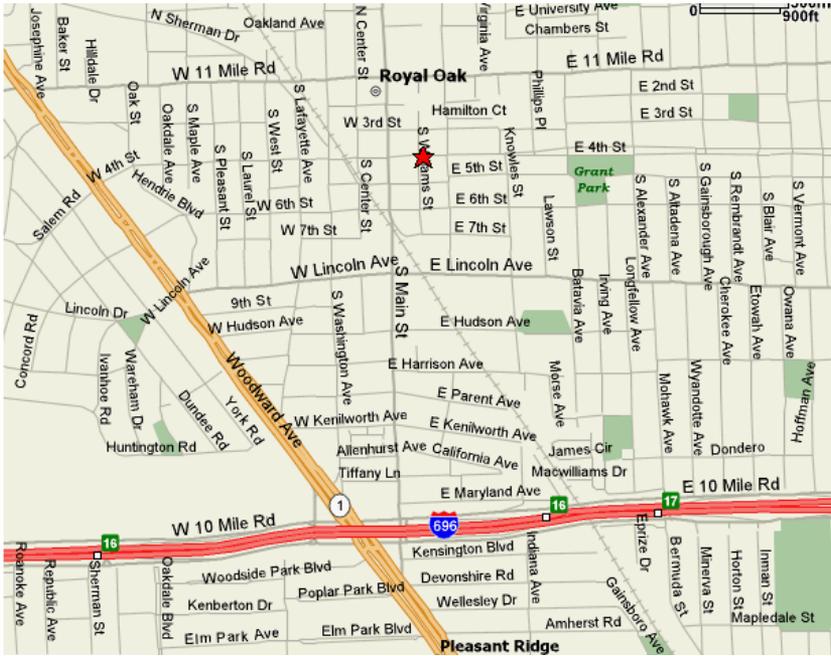
The Detroit Chemist is now also available via email in text-only form. The email version is distributed at the same the issue goes to press (much sooner than the printed and bulk mailed edition). To subscribe send an email to: majordomo@angus.mystery.com with

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in the body of the message.

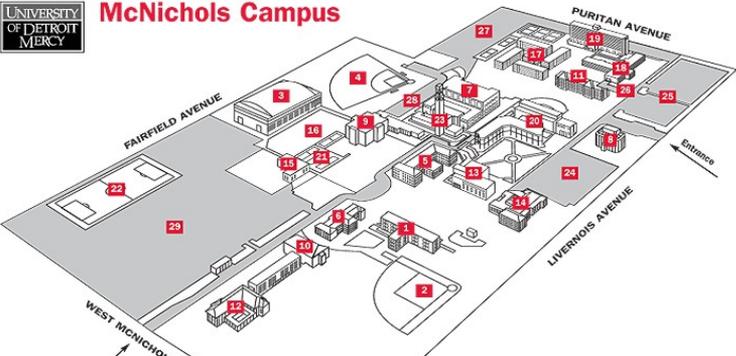


Royal Oak Brewery





McNichols Campus



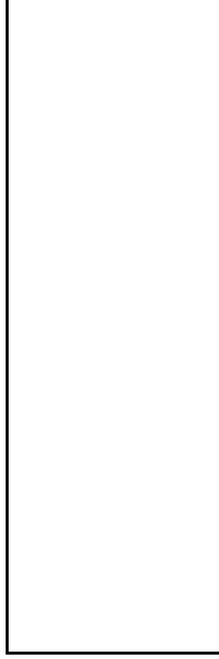
LEGEND

1 Briggs Building (Liberal Arts & Education)	15 Physical Plant/Receiving
2 Buysse Ballpark	16 Practice Soccer Field
3 Calihan Hall	17 Quadrangle Residence Halls
4 Campbell Baseball Field	18 Reno Hall/Student Health Services
5 Chemistry Building	19 Shipley Residence Hall
6 Commerce & Finance Building (Business Administration)	20 Student Center/ Ballroom
7 Engineering Building	21 Tennis Courts
8 Fisher Administration Center	22 Titan Soccer Field
9 Ford Life Sciences Building	23 Tower/Powerhouse
10 Health Professions, (College of)	24 Faculty/Staff Parking Lot A
11 Holden Residence Hall	25 Faculty/Visitor Parking Lot B
12 Lansing-Reilly Jesuit Residence	26 Student/Visitor Parking Lot C
13 Library	27 Student/Visitor Parking Lot D
14 Loranger Architecture Building	28 Faculty/Staff Parking Lot E
	29 Student/Visitor Parking Lot F

Shaded areas indicate parking lots and thoroughfares.
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Detroit Section ACS
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