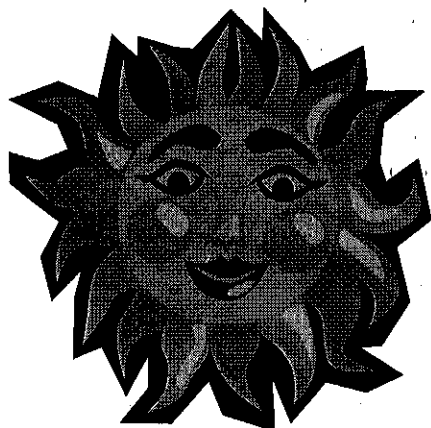


Chemistry Bulletin

Louisville Section American Chemical Society

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A Summertime Activity for Our Louisville Section ACS Members

Your section officers have planned a summer outing for all members, families, and friends. Here are the details:

A Day at the Louisville Zoo

Saturday July 30 Zoo is open 10 AM to 5 PM

Free parking Door prizes

Group admission \$7

Your ACS section will provide food & beverages & dining facilities at the Zoo Vision building from 10 AM to 3 PM

Zoo staff can show 2 animals to the group. Choose from:

Ball Python	Tenrec Hedgehog	Rabbit
Chuckwalla	Bearded Dragon	Hissing Cockroach
Misc Birds	Skink	Guinea pig
Chinchilla	Ferret	Owl
Kestrel	Tree Frog	Tarantula
Opposum		

A letter will be sent to all when all details are fixed.

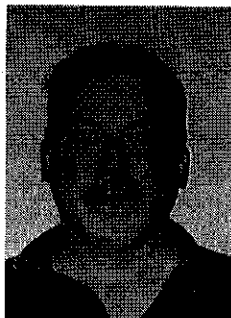
Louisville Section ACS Officers - - - 2005

<u>Office</u>	<u>Contact</u>	<u>Telephone</u>	<u>e-mail</u>
Past Chair	vacant		
Chair	Sue Jarboe	419-0418 (cell)	
Chair-elect	Paul Eichenberger	585-9911 x2453 (w)	peichenberger@spalding.edu
Secretary	Steve Baldock	254-2344	sbaldock@bellsouth.net
Treasurer	John Burden	585-9911 x2452 (w)	jburden@spalding.edu
Member-at-large	Charlotte Tucker	449-5561 (w)	charlotte_M_Tucker@rohmhaas.com
Member-at-large	Stan Siranovich	553-7887 (cell)	stanss1@earthlink.net
Member-at-large	Paul Eichenberger	585-9911 x2453 (w)	peichenberger@spalding.edu
Councilor	Jim Tatera	812 265-2301	jtatera@seidata.com
Alternate Councilor	Grant Taylor	852-5970	kgtaylor@louisville.edu

Louisville Section ACS Coordinators

NCW	Sue Jarboe	419-0418 (cell)	
NCW	Bill Kustes	634-7425 (w)	WilliamKustes@msn.com
Newsletter	Bill Kustes	634-7425 (w)	WilliamKustes@msn.com
Careers	Jim Tatera	812 265-2301	jtatera@seidata.com
Student Affiliates	Elaine Haub	812 941-2528 (w)	ehaub@ius.edu
Section Archivist	vacant		

New Officer Information



Chair-elect: Paul Eichenberger

Paul W. Eichenberger graduated in 1981 from the University of Dayton with a degree in Chemistry. Since then, he has performed research in Biochemistry at the University of Louisville with Dr. William Dean, and also at the J. Graham Brown Cancer Center with Dr. Terry Hadley. In 1995 Paul joined Spalding University as their first full-time Science Lab Director and instructor. Paul has taught numerous science courses, and maintains the stockroom supplies and accounts for the School of Natural Science.

Paul rejoined the ACS in 2002, and has served for two years as Louisville Section Member-at-Large. In January he attended the ACS Leadership Training Seminar in Baltimore, in preparation for assuming the position of Chair in 2006.



Section Secretary: Steve Baldock

Steve graduated from the University of Kentucky with a Bachelor's degree in Mathematics and Computer Science. Steve utilized Computer Aided Design for structural steel design and architectural design for a local engineering consulting firm. He has taught beginning and advanced courses in AutoCAD at the University of Louisville's AutoCAD Training Center and at Ivy Tech College in Indiana, and has co-authored many AutoCAD training books for industry and academia.

In 2001, Steve graduated from the University of Louisville with a Bachelor's degree in Chemical Engineering. He worked in environmental engineering and process engineering at ATOChem in Carrollton, KY. Currently, he works at a local civil engineering consulting firm managing CAD data and applications as well as using civil engineering design applications.

News from the Chair

Hello.....

First, welcome to all our new and transfer-in local section members. Please refer to the Local Section Officer's Directory located in this Newsletter for names, phone numbers and email addresses and contact us if we can help you with any questions. Also, please visit our Website at www.louisville.edu/org/acs/louisville.htm.

We had a very successful Awards/Recognition Dinner on April 20th. Suhail Malhotra, the senior from Manual High School (2nd place winner) whose project was entitled "Dispersions of Crystalline Titanium Dioxide Nanoparticles" was 4th place winner at the Intel International Science Competition! Our congratulations to Suhail!

As has been noted in previous newsletters, we are planning a "summer" activity where you and your families and/or friends can participate in a social gathering. We have selected the Louisville Zoo for the place of activity. It will be the last Saturday of July. By the time you receive this newsletter we should have more details. Please watch for a letter in the next week or two for complete details.

Paul Eichenberger is looking for dinner meeting speakers for this fall. If you know someone with an interesting subject that our Section would enjoy hearing, please contact Paul. His phone and email address is listed in the Directory. A special event is planned again for September. More details on the event will be announced in an August issue of the Newsletter – or hopefully, we can give you more details at our Summer Activity.

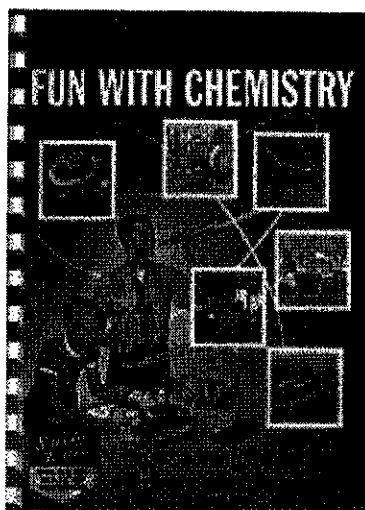
Please have a safe and great summer – and I look forward seeing you and your families at our activity!!

Sue Jarboe
Chair – Louisville Local Section

The Louisville Section welcomes Bradley Aulick, Kathryn Vest, Charles Faulk, April Elston, and Carl Friesen as new members.

The theme for the 2005 National Chemistry Week is "The Joy of Toys".

Perhaps a chemistry set.



Chemistry sets have undoubtedly inspired countless young people to pursue careers in science. Since the early 1900s, chemistry sets have entertained and educated millions of American boys and girls, giving many an appetite that could only be satisfied by choosing chemistry as their profession. Even for those who chose other careers, fond memories of this favorite "toy" have made the sets treasured and often valuable collectibles.

Porter Chemical

John J. Porter earned his B.S. degree in chemistry and persuaded his brother, Harold Mitchell Porter, to join him in starting the Porter Chemical Company in 1914. Using the "Chemcraft" trademark, the Porters commenced business with two "chemical magic" sets, both selling for less than a dollar. By the early 1920s, the company offered a line of sets in six different sizes, retailing for prices from 50 cents to \$25. In the 1930's the company also offered other scientific toys.

The pieces in the Chemcraft sets were typical of basic chemistry sets. For example, the "Chemcraft Junior Chemistry Outfit No. 411" included a metal rack with test tubes, glass tubing, litmus paper, stirring rods, a spatula, and glass jars of phenolphthalein, ammonium chloride, sodium carbonate, sodium ferrocyanide, cobalt chloride, calcium oxide, ferric ammonium sulfate, and tannic acid. The manual began with hints for putting on a "chemical magic" show for friends and family, including publicity, costume, and sound-effect suggestions, and instructions for about 50 demonstrations of chemical "mysteries".

The balance of the book included instructions for another 250 experiments under the headings "What Things Are Made Of", "Our Chemical World", and "Chemistry in Our Homes and Industries". An appendix listed more than 60 chemicals and a variety of apparatus that could be ordered directly from the Porters at a nominal cost of 10-90 cents.

A.C. Gilbert

The Porters' main competition in the "instructional toy" business was famed inventor and toymaker Alfred Carlton Gilbert. Gilbert and his friend John Petrie formed a company that produced the Mysto magic sets. A few years later, true success came when he introduced the "Erector Set" in 1913. In 1917, with the Erector Set firmly established, the company brought out several new products. In his autobiography, Gilbert recalled: "the most important of these was our chemistry set, which has throughout the years been one of our best items. It was perfectly safe, and yet a boy could do hundreds of interesting experiments with it. I worked hard on the manual that went with it, making sure that it would be fun. It was chock-full of fascinating experiments and tricks, so boys liked it and learned a lot from it."

The largest Chemcraft and Gilbert sets contained many dozens of chemicals and additional equipment such as balances, alcohol lamps, and torches for glassblowing. Although the most familiar, Porter and Gilbert were by no means the only manufacturers. Chemistry sets were also sold under such names as Handy Andy (by Skil Craft) and Chem-Pak (Chicago Apparatus Company).

Winning Hearts and Minds

The adage "they don't make them like they used to" may be as true for chemistry sets as it has become for other elements of American life. Indeed, the reality is that they hardly are being made at all. A recent trek to a local hobby store revealed only a few sets to choose from—a far cry from the plethora available in the chemistry set heyday of the 1940s and 1950s. Liability concerns have forced most of what was "dangerous" out of the sets, no doubt also forcing out some of their mystery and appeal. A veterinarian confessed to the author that he buys vintage chemistry sets to satisfy his teenaged son's interest in chemistry, as they were both disappointed in the choices now available. Rare chemistry sets in mint condition have recently fetched hundreds of dollars in online auctions.

There are any number of reasons why young men and women choose to pursue a career in science. The fun and learning of having had a chemistry set is only one of many. One hopes that the 21st century will find its own "natural magick" to keep the heritage of chemistry sets alive.

Excerpted from the article "Yesterday's Toy Becomes Tomorrow's Trade" in Today's Chemist at Work, September 2000. You can find the entire article at www.acs.org.

I had the privilege of representing you at this springs annual ACS National Meeting. The following is a highlight summary of information that I picked up and thought you might be most interested in:

Next years base national dues will be \$127.

Your section has expressed an interest in hosting a Regional Meeting and will be developing and submitting a proposal over the next year.

By next month members will be able to update their member information on-line at any time.

Last year the society finances returned to the black (including revenue from the sale of assets like Belmont). All is not as rosy as that may sound, last year we took several budget-cutting steps to return to the black. Membership is still slowly declining (~1% last year) and was at 158,127.

ACS now has an Ethics Committee. Though many challenges and concerns were expressed, I voted for it. It was passed and we will have to wait and see what develops. This has been in the works for many years and appeared to be a reasonable move. The whole thing was weakly defined and consequently we will probably have to wait and see what really develops.

Our profession is struggling on many fronts. It has an identity crisis of sorts. Polymer chemists are material scientists, biochemists are bio-scientists and work in Biopharmaceuticals and Biotechnology and not Chemistry, nano tech people seem to be developing into a specialty, etc. Jobs in our profession are growing primarily in low cost centers and not where most of us want to live. We didn't mind it when we were taking research jobs from Europe, but now we appear to be losing them to India and China. If you want to keep up with this issue, please check out the ACS Globalization Task Force at

<http://www.chemistry.org/portal/a/c/s/1/career.html?DOC=committees%5ccepa%5cglobal.html> and its associated message board. ACS President Bill Carol's Chemical Enterprise 2015 Project is intended to help give us a better perspective of where we are heading.

To help obtain more member input on the topic, the ACS would like sections to consider holding meetings on the subject and to share their discussion with the CEPA Task Force on Offshoring/Outsourcing. They have a power point presentation "Global Outsourcing Issues on Employment For Chemists". They will send this presentation for us to use as an ice breaker/discussion stimulator, for a section meeting. If you are interested in the section hosting a meeting on this topic next fall, please contact our Chair Elect and advise him of your interest.

We are reviewing the ACS member definition. We currently accept some special non-chemistry majors (like teachers). In the future we will probably accept anyone who considers himself or herself interested enough in our activities to pay the dues. This is partially a result of the identity crisis mentioned above. We are also looking at possible international structures for the ACS.

The ACS Silver Circle Group (old-timers group) conducted its first programming and reception at this national meeting. Its program covered the topic of benefits and healthcare for individuals who are retired or self-employed. The group has not asked to become a committee and as such has had to obtain funding and resources from other funded groups who are willing to contribute to their cause. If you want to be on their distribution list you can either contact ACS headquarters (Marisa Burgener [m_burgener@acs.org]) or me.

On the local front, things have improved a little. We have a few new volunteers and a chair elect. That is more than we had a year ago. We still need more help. Please consider offering your support, by offering to run for one of our open offices or serving on one of our committees. We love volunteers and are very poor mind readers. If you don't offer we will probably miss you and we do want and need your support. Consider volunteering yourself or a friend and/or coworker. We try not to overwork anyone. We realize that we would be utilizing some of your valuable available free time. We try to keep all assignments and responsibilities to a reasonable volunteer's workload. If required and/or preferred we will even consider job-sharing offers. We are in need of several nominees for this fall's election. Take a look at the officer positions that are listed with the officer contact information. Any of them interest you? We are in particular need of a Chair Elect (a three year commitment – one year each as Chair Elect, Chair, and Past Chair) and would be happy to also consider candidates for any of our offices and/or committee positions. At the section level we have a general shortage of volunteers and I am sure that even some of our existing volunteers in filled positions would consider changing positions, for some new blood. It is your Society and we represent your profession locally. Feel free to contact me with any names and/or questions. Please consider serving your local section. More on this topic as the fall election cycle approaches, but I wanted to get you thinking on it early.

The annual audit of section finances has been completed. Paul Eichenberger reports that all expenditures are supported by receipts and documentation.

The Clever Dog (A Joke)

A dog was on safari with his humans. One afternoon, he started chasing after a butterfly near the camp and suddenly found himself deep within the wilderness.

He saw a leopard approaching him from the grass. "Oh boy, guess I'm gonna have to show this cat who's boss" thought the dog as he plopped down next to a pile of bones. He reached for the largest bone and began to chew on it.

The leopard hid in the tall grass and waited for just the right moment to pounce on the canine. The dog continued chewing on the bone as the leopard slowly inched closer.

When the dog heard the movement of the grass, he said loudly, "Mmm, mmm. That was one tasty leopard. I think I'll eat another one.

The leopard froze in his tracks. He figured was no match for the vicious dog and retreated to safety. But there was a monkey in a nearby tree. He had seen everything and decided to tell the leopard what really happened, hoping to create an alliance. The dog knew that something was amiss when he saw the monkey chasing after the leopard. But the clever dog knew that he had to stay calm to outsmart both the leopard and the mischievous monkey.

When the monkey informed the leopard of what had happened, the leopard grew angry. "No one makes a fool of me," the leopard growled. "Come, my little friend. Let's show that dog who's running things around here.

The leopard ran back through the tall grass with the monkey on his back. "Here comes trouble," the dog thought to himself as he relaxed and chewed on the bones. He knew the leopard's wrath would be merciless. He could feel the big cat watching him from the grass. From the corner of his eye, he could see the monkey scampering toward a nearby tree—this was the moment to make his move.

"What has that monkey done with my dinner?" howled the dog. "I sent him to fetch me another leopard a half hour ago and he's *still* not back!"

April Awards and Recognition Banquet 2005

University faculty and your Louisville ACS section officers recognized the following at the April banquet:

OUTSTANDING CHEMISTRY GRADUATES:

INDIANA UNIVERSITY SOUTHEAST

Heather Hill
Jason Biggs
Tracy Emily
Tara Koressel
Tina Esarey

UNIVERSITY OF LOUISVILLE

Stefanie Bumpas

BELLARMINE UNIVERSITY

Angela Phillips

50-YEAR MEMBERS:

Dorothy Gibson
Rose Dagirmanjian

SCIENCE FAIR WINNERS:

1st Place Senior: Eric Koestal; Hydrogen & Electrolysis
2nd Place Senior: Randall Ray; Effectiveness of Various Sunscreens
3rd Place Senior: Michael Stoess; How Distance is Affected by Propellants
1st Place Junior: Rosalyn Steinmetz; Responses to Acids & Bases in a Cranberry Solar Cell
2nd Place Junior: Tiffany Liu; Coating Thickness Control
2nd Place Senior, Manual: Suhail Malhotra; Dispersions of Crystalline Titanium Dioxide Nanoparticles

SPECIAL AWARDS:

Glen Zwanzig, Manual High School, for Teaching Excellence in Science
Shirley Forte-Spalding, for Outstanding Service by a Scientist to the Global Community
Joe Zimlich, for Outstanding Service by a Scientist to the Global Community
Rohm & Haas, for Outstanding Contributions by a Company to Chemistry and the Community

Stefanie Bumpas was selected as a Derby Festival princess.

Suhail Malhotra won a fourth place award at the International Science and Engineering Fair.