



The

Indiana Section of the American Chemical Society

# Accelerator

Visit our website: <http://membership.acs.org/i/indiana/>

## Chair's Corner

The first part of 2010 has been action-packed for the Indiana local section. Our tour speaker series kicked off at University High School in February with a talk on flavor chemistry by Dr. Sara Risch of Science by Design. The Ball State University Student Affiliates of the American Chemical Society did an outstanding job co-hosting our 7<sup>th</sup> annual Science Day event in Muncie in April which attracted well over 800 people. In May, we recognized winners of the 2010 Indiana Section ACS Scholarship and United States National Chemistry Olympiad Exam as well as our 50 and 60 year local section members at our annual Awards Night event.

Looking forward, we have a full schedule of exciting events planned for summer and fall. We secured funding from the National ACS for a Leadership Development course which will be focused on educating local section volunteers that will be held on June 19th at Butler University. Baseball Night will be in late July, August will see the return of our Chemistry of Ice Cream event at Eagle Creek Park, and we are targeting September for the return of our Career Night event which has been very well-received in the past. We are also very excited and pleased that ACS President Joe Francisco has agreed to join us as the speaker for our annual poster session which will be held in October at Butler University. We also have another tour speaker event planned for October as well as our annual National Chemistry Week event at The Children's Museum in November which you will hear much more about as the time draws nearer. So there are plenty of opportunities for you to get involved either as a volunteer or as a participant in one or more of these awesome events. And as always, please give us your feedback and let us know what programs you would like to see us sponsor to better meet your professional needs. We are here for you!

Jeannie Phillips  
2010 Indiana Local Section Chair

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#### Newsletter Editor

Denise Cudworth  
[dpcudworth@dow.com](mailto:dpcudworth@dow.com)

#### Publicity Chair

Brian Mathes  
[mathes@lilly.com](mailto:mathes@lilly.com)

#### Section Chair

Jeannie Phillips  
[jrphillips@dow.com](mailto:jrphillips@dow.com)

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To find up to date information about Local Section activities,  
visit our website: <http://membership.acs.org/i/indiana/>

## The Flavor of Chemistry

Our first tour speaker for the 2010 season was Dr. Sara J. Risch. Sara has a Ph.D. in Food Science from the University in Minnesota and is currently the principal in the consulting firm of Science by Design, which she founded in 1993. She works with food and packaging companies to develop new products, improve existing products, and determine new areas for growth. She is a member of the executive committee of the Food Chemistry division of the Institute of Food Technologists, and she is also active in the Agricultural and Food Chemistry Division of the ACS. A crowd of about 25 braved blizzard-like conditions in February and came to University High School to hear Sara's talk on flavor chemistry. She described what flavors are, what they do, how chemical structure influences flavor, the difference between "taste" and "flavor," and careers for flavor chemists. The audience was very interested and engaged and asked many good questions. The highlight of the evening was a jellybean taste test to demonstrate taste versus flavor, and of course the clever way in which the drawing for the huge jar of jellybeans was carried out at the end of the evening generated a fair bit of excitement.

Jeannie Phillips

## 2010 Indiana Section ACS Scholarship and USNCO Exam

The 2010 Indiana Section ACS Scholarship and United States National Chemistry Olympiad (USNCO) Exam was held at Butler University on Saturday, March 13, 2010. There were a total of 121 students (of 161 nominated) who took the exam: 59 (of 76 nominated) first year exam (average score 30/60), 44 (of 56 nominated) advanced exam (average score 38/60), and an additional 18 (of 35 nominated) students who took the exam solely to compete for a spot on the United States National Chemistry Olympiad team (average score 35/60).

Students who scored high on the exam were contacted and invited to participate in the second phase of the USNCO competition, which is a

written exam plus a practical laboratory exam, which was held at Butler University on Saturday, April 24, 2010. Our goal is to get Hoosier students to qualify for the three-week USNCO camp at the United States Air Force Academy from which the USNCO team will be chosen.

There was a good discussion among the teachers present at the exam regarding the changes that have been made this year. In general the teachers

- 1) applauded the use of the national exam to allow our students to take the same exam that is used by 90% of ACS sections.
- 2) like the earlier date so that high-scoring students have more time to prepare for the USNCO camp qualifying exam.
- 3) appreciate having regional preparation and testing sites for the scholarship and USNCO exam. In addition to Butler University in Indianapolis, Ball State and Earlham College were test sites this year.

The winners were recognized at the Indiana local section Awards Banquet, which was held on Tuesday, May 11, 2010 in the Krannert Room of Clowes Hall on the campus of Butler University.

Bob Pribush  
Jianping Huang

## Science Day 2010

The Indiana Local Section once again teamed up with the Ball State University Student Affiliates of the American Chemical Society (BSU SAACS) to organize our 7<sup>th</sup> Annual Science Day. The primary goal of this event is to create and develop interest in the sciences amongst elementary school students in the Muncie Area. Over 30 booths of hands-on activities, demonstrations, contests, and exhibits were on display indoors at the Delaware County Fairgrounds in Muncie, IN. By having the event indoors, we did not worry about the wet weather in the morning or electricity needs for some of the booths.

A number of activities incorporated the

**Chemists Celebrate Earth Day** theme *Plants—The Green Machines!* including crystal trees, water-drop mazes, and grow your own seed in a test tube. Other topics covered at the tables this year included recycling, glitter slime, invisibility, shaving cream designs, UV nail polish and bracelets, Shrinky Dinks, film canister rockets, freezing point depression, and density. We had many free giveaways, including recycle bags donated by East Central Indiana Recycling and “My Own Science Day” books produced by BSU SAACS. With funds received from the BSU ISTEM Initiative grant, it was possible to feature the Genie in a Bottle and Elephants Toothpaste demonstrations again this year. Activities coordinated by other BSU student organizations (the Pre-Health Professions Club, the Storm-Chase Team, and the Genetics Club) also were a big hit. The event also had a carnival-like atmosphere with the play-activities provided by Three-Bears Concessions and the Design-A-T-Shirt and Will-It-Float? contests to increase community participation. In the three Will-It-Float? contests, contestants were asked to choose whether certain objects would float or sink when placed in water. Over 100 entries were submitted; the entry with the most correct choices won. Ann



*“Genie in a Bottle” was demonstrated in the Magic Corner.*



*Children got to make glitter slime in another area.*



*Young scientists are shown testing the properties of Oobleck (cornstarch and water).*

Gregory won a MegaView TV Microscope, Michael Nickel won a Physics Solar Workshop, and Anna Dillinger won a Hydrocar model. More than 20 entries have been received for the Design-A-T-Shirt contest. The winner, who will receive a \$100 Toys-R-Us gift card, will be announced in the fall.

Volunteers included BSU Department of Chemistry Faculty and BSU SAACS members, as well as business, architecture, and elementary education students and members of volunteer sororities. Food for the volunteers was provided by McAlister’s Deli and Little Caesar’s Pizza. T-shirts for the volunteers were made by Outfitters of Muncie. Over 800 people were in attendance this year, making Science Day a huge success once again. We hope to see you on Saturday, April 23<sup>rd</sup> in 2011 for our 8<sup>th</sup> Annual Science Day!

Jason Ribblett

## Indiana Section Annual Awards Night

The ACS Indiana Section Annual Awards Banquet was held on May 11, 2010 in the Krannert Room of Clowes Hall at Butler University. Master of ceremonies was Program Chair Brian Mathes of Eli Lilly & Company. The program began with a buffet dinner which was followed by Dr. David Styers-Barnett's presentation: *A Celebration of the 50th Anniversary of the LASER*. Dr. Styers-Barnett is an Assistant Professor of Chemistry at the University of Indianapolis. Awards were then presented by Education Committee Chair Bob Pribush of Butler University and Local Section Olympiad Coordinator Jianping Huang of Eli Lilly & Company to the winners of the 2010 Indiana Section ACS Scholarship and USNCO Exam, held at Butler University on March 13. The winners were as follows:

### First-Year Examination Awards

#### \$1000 Scholarship

Terry Ming Carmel High School

#### \$800 Scholarship

Justin Ahmann Zionsville Community High School

#### \$600 Scholarship

Ray Qian Carmel High School

#### \$400 Scholarship

Rebecca Chen Park Tudor

#### \$200 Scholarship

Roy Chen Carmel High School

#### Honorable Mention

Scott Blankenbaker Carmel High School  
Aixin Chen Zionsville Community High School  
Lyndon Ji Carmel High School  
Chris Li Carmel High School  
David Wintermeyer North Central High School  
Stephanie Wu Carmel High School

### Advanced Student Awards

#### \$1000 Scholarship

Ivy Yan Carmel High School

#### \$800 Scholarship

Zenas Shi Carmel High School

#### \$600 Scholarship

Kevin Song Carmel High School

#### Honorable Mention

Steven Chen Carmel High School  
Alex Elias Yorktown High School  
Nick Noll Zionsville Community High School

Stephanie Pitman Carmel High School  
Tracy Sun Carmel High School  
Evan Williams Zionsville Community High School  
Rebecca Xu Carmel High School

### Top Five Schools

(\$100 to each school)

1. Carmel High School
2. Zionsville Community High School
3. Park Tudor
4. North Central High School
5. University High School of Indiana

On April 24, the twelve highest scoring students on the local section exam also took a grueling three-part written and laboratory United States National Chemistry Olympiad examination at Butler University. At the awards ceremony, Jianping Huang paid special recognition to Lee-Wei Kao of Zionsville Community High School. Of the thousands of students who initially took the local section and national USNCO exams, Lee-Wei finished among the top twenty and will represent the Indiana Section at the USNCO training camp at the Air Force Academy this summer. From this group of twenty, four will be selected for the USNCO team that will compete at the international Chemistry Olympiad.

The program concluded with the recognition of the section members listed below who have served the ACS for 50 and 60 years and with the presentation of the Past Chair pin to Jason Ribblett of Ball State University.

### Fifty-Year Members

Dr. Jesse L. Bobbitt, Indpls.  
Mr. Philip J. Burck, Fishers  
Mr. Standiford H. Cox, Indianapolis  
Dr. F. Timothy Janis, Franklin  
Mr. Eric V. Krumkalns, Indianapolis  
Dr. James L. Pyle, Muncie

### Sixty-Year Members

Ernest G. Barr, N. Manchester  
Dr. Alfred A. Schilt, Noblesville  
Dr. Walter E. Wright, Indianapolis

Bob Pribush  
Laura Slocum

## Call for Nominations

The Indiana Section is always in need of people willing to work to bring chemistry and chemical education to central Indiana. Every October a new slate of officers is elected by the membership to serve on the executive committee. We are currently seeking nominations for the following officers: a Chair-Elect (who will serve as Chair the following year), a Treasurer, a Secretary, one Councilor, one Alternate Councilor, and three Members-at-Large. The Chair-Elect, Councilor, and Alternate Councilor serve for three years; and the Treasurer, Secretary, and Members-at-Large serve for one year, with all terms beginning on January 1, 2011.

If you feel called to serve or know someone who may be willing, **please send your nominations to our Past Chair, Jason Ribblett at [jwribblett@bsu.edu](mailto:jwribblett@bsu.edu)**. Additionally, if you have any questions about the roles and responsibilities, he would be the person to contact as well.

**Please let Jason know by Aug 9<sup>th</sup>**. We will begin preparing for elections after that, which will once again be done electronically.

Thank you in advance for your consideration for these important roles.

Indiana Section Executive Committee

## Volunteer Opportunity

This past year, WGBH (Boston's PBS station) and the Lemelson Foundation launched an exciting invention-based mentoring program called the Time to Invent Club in Boston and Indianapolis. The program places young science, technology, engineering & math (STEM) professionals and college students in after-school sites once a week to co-lead an hour-long program. Working with a group of kids ages 10-12, the mentors use a stepped-out curriculum that inspires underserved youth to explore invention. We are currently looking for volunteers to serve as mentors for the fall 2010-spring 2011 program in Indianapolis and Lafayette. If interested, please

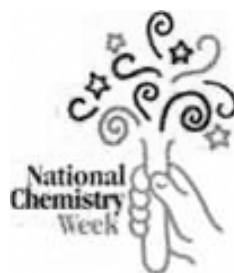
contact Liza Silverman:

[liza\\_silverman@wgbh.org](mailto:liza_silverman@wgbh.org) or (617)-300-3642

## Leadership Course

The Indiana local section received a mini-grant to host a leadership course, entitled "Engaging and Motivating Volunteers." The course will be held on June 19th from 8-12 at Jordan Hall on the campus of Butler University. Space is limited, so contact Amy DeBaillie of Eli Lilly & Company by email ([DEBAILLIE\\_AMY\\_C@LILLY.COM](mailto:DEBAILLIE_AMY_C@LILLY.COM)) if you're interested in attending.

Amy DeBaillie



Mark Your Calendars  
***Behind the Scenes  
with Chemistry!!***  
**National Chemistry  
Week Celebration**  
The Children's Museum  
November 6, 2010

The 2010 Indiana Section will celebrate National Chemistry Week on Saturday, November 6, from 10 am – 3 pm at The Children's Museum of Indianapolis! Current shows like MYTHBUSTERS and books like *The Science of Harry Potter* bring "behind the scenes" science to a prominent view. This allows the public to understand that it's not magic, but rather common chemistry topics which explain the mystery behind the "magic" that is shown. With this year's theme, we want to diminish the term "magic" associated with the "unexplainable" and direct attention to the chemistry which makes these things work.

**Watch the Local Section website (<http://membership.acs.org/i/indiana/>) for updated information about our plans and activities!**

Your help is needed to make this event one of the best science education events in the state! Start planning now for how you would like to be involved! We are still working out the details of

our events and plans, but the information below will give you an idea of what we are considering. If you have other ideas for fun, educational events, please contact us!

This year we look forward to hosting the following activities in the spirit of National Chemistry week:

### **Community Charity Event – Canned Food Drive**

This will be a wonderful opportunity to get our chemistry community to help local organizations in need and have fun at the same time!

### **18<sup>th</sup> Annual High School Chemistry Competition**

In light of last year's success, we are asking high school teams to submit videos for this year's competition. The video submissions (minimum 5 minutes- maximum 15 minutes) will be judged according to the following criteria: display of the theme "Behind the Scenes with Chemistry," innovation, hands-on activities, and teamwork efforts. The team earning the most points will be deemed the top scorer at a short awards ceremony at The Children's Museum of Indianapolis during the National Chemistry event on Saturday, November 6, 2010. The video will be played continuously during the NCW event.



### **Chemistry Activities at the Children's Museum**

Local companies, universities, and professional organizations are invited to set up booths which provide interactive experiments and demonstrations related to *Behind the Scenes with Chemistry!*

### **Please Volunteer for Our Award-Winning NCW Event!**

We have many opportunities for our Indiana Section members to get involved with National Chemistry Week! Most involve as little as 1-2 hours of your time. Some volunteer opportunities involve working with museum guests, while oth-

ers are for behind-the-scene activities, including event planning and volunteer coordination activities.

**In the spirit of early preparation for this event, we are currently looking for volunteers to serve on the 2010 National Chemistry Week Committee in the following capacities:**

1. Booth coordinator
2. High School competition coordinator
3. Publicity/communication coordinator
4. T-shirt contest coordinator
5. Volunteer coordinator
6. Community event coordinator

To volunteer, please contact Erin Dotlich ([erindotlich@yahoo.com](mailto:erindotlich@yahoo.com)) or Viola Kimbowa ([kimbowavs@lilly.com](mailto:kimbowavs@lilly.com)) immediately!

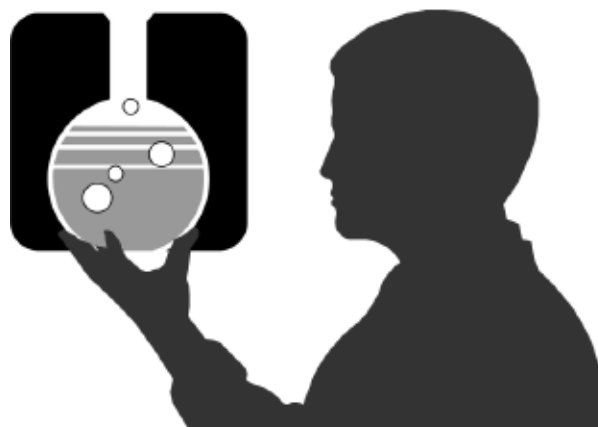
**All volunteers who help with NCW on November 6 will receive free museum admission the day of the event as well as a free NCW t-shirt.**

### **Need more information?**

Contact [indyncw@gmail.com](mailto:indyncw@gmail.com)

**Special Thanks to Dow AgroSciences, Eli Lilly and Company, and The Children's Museum of Indianapolis for continuing support and sponsorship of the Indiana Section's National Chemistry Week event.**

Viola Kimbowa



## Check It Out! Upcoming Events in 2010!

July 26: Baseball Night at Victory Field  
Indians versus Charlotte Knights  
7 PM

August 11: Chemistry of Ice Cream  
Eagle Creek  
6:30 PM

September: Career Night  
Time and date TBA

October 13: ACS Poster Session  
6 PM

October 24: Wizard's Academy  
Indiana Medical History Museum  
12 Noon

November 6: National Chemistry Week  
Celebration  
The Children's Museum of  
Indianapolis  
10 AM – 3 PM

**American Chemical Society Webinars (ACS Webinars™)** is a weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in chemical sciences, management, and business on relevant professional issues. Each webinar is 60 minutes in length, comprising of a short presentation followed by Q&A with the speaker. The live webinars are held on Thursdays from 2-3pm ET and recordings of the past webinars are available online. View and register for upcoming events at [http://boilthisdown.org/?page\\_id=385](http://boilthisdown.org/?page_id=385) or email [acswebinars@acs.org](mailto:acswebinars@acs.org).



### June 3, 2010 - Effective Technical Writing – Tips and Strategies Every Scientist Should Know.

Does your job require frequent technical writing? Do you ever feel frustrated with technical writing, either with your own or that of others?

Technical writing is a regular, but often considered painful, part of life for many scientists. Fortunately,

there is help! Improve your technical and scientific writing skills without leaving your desk! Join our speaker Aline Harrison, the instructor for Effective Technical Writing Short Course offered by the American Chemical Society Office of Professional Education, as she shares tips on how to improve your ability to write technically, the “pain-free” way.



### June 17, 2010 - A Life of Innovation – Finding Your Passion.

How would you like to shape your scientific legacy? Get inspired with remarkable life stories of great scientists. David Walt's Laboratory at Tufts is world-

renowned for its pioneering work that applies micro and nanotechnology to urgent biological problems. Join us as David Walt, an accomplished educator, researcher, and entrepreneur shares his journey and his passion for science and innovation. Learn how to uncover your passion and build your own journey!



### July 1, 2010 - From Laboratory to Licensing: Protecting Your Intellectual Property Along the Way.

You may be working on breakthrough research but do you know how to protect it? Scientific professionals devote a tremendous amount of time and energy to create valuable intellectual

property; yet, many do not invest the necessary time to learn what it takes to protect their work. According to the U.S. Patent and Trademark Office, in 2009, just under forty percent of patent applications were granted. Navigating the path from discovery to market can be complex and tricky. Learn from our speaker, Tom Steinberg, of Roberts, Mlotkowski, Safran & Cole, strategies you need to know to protect your life's work.



### July 8, 2010 - Chemicals & the Economy Mid-Year Updates – Impact and Outlook for Executives and Scientists.

Recovery is the new buzzword, but is it here to stay? Would you like to know what indicators to watch for? The chemical industry is a

well-known leading indicator for the world economy. Yet chemical professionals are often unaware of this significance. Learn from our speaker, Paul Hodges, of International eChem, strategies for navigating these uncertain economic waters. Learn how understanding the economy and chemical industry trends can help you better plan for your career and business.

# *Cultivating Chemistry at the Crossroads of America*



## **Central Regional Meeting of the ACS June 8<sup>th</sup>-10<sup>th</sup> 2011**

### **University Place Conference Center and Hotel Indianapolis, Indiana**

Celebrating the International Year of Chemistry with a comprehensive technical program, workshops and special events in a downtown area that offers big-city amenities in a convenient, easy-to-navigate packaged wrapped in a friendly, inviting atmosphere.



Contact: Dr. Jeannie Phillips, General Chair  
jrphillips@dow.com  
www.acs.org/crm2011

*Save the Date and Spread the Word!*

To find up to date information about Local Section activities,  
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