



The

Indiana Section of the American Chemical Society

# Accelerator

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

## Chair's Corner

As I was thinking about the coming year for our local section, I drew some inspiration from Professor Joseph Francisco, our new ACS President and fellow Indiana resident. In his article in the January 4<sup>th</sup> issue of C&EN, Dr. Francisco cites the role of the ACS as a "pivotal partner in ensuring our members are ready to (compete) in the global marketplace." How can we achieve that at the local level? An important focus for our local section is supporting educators and their students in preparing to be successful in their careers. To that end, the Indiana local section sponsors a poster session for college students to share their undergraduate research and network with chemistry professionals and academicians, and a career night to give students a flavor of the different chemistry career options available to them. Our section also supports Project SEED, which is a wonderful program that provides summer research opportunities for underprivileged students. Joe also encourages us to be role models and mentors to youngsters by sharing our knowledge and love of chemistry with them. We have fantastic events to get kids excited about chemistry, such as our National Chemistry Week program held at The Children's Museum of Indianapolis in the fall, our Chemists Celebrate Earth Day event held at the Delaware County Fairgrounds in the spring, and Wizards Academy held at the Indiana Medical History Museum, also in the fall. In addition to these programs, we have another great speaker series planned for 2010 which is detailed in this newsletter, and many other events that you will hear more about in the coming months.

An important point that Dr. Francisco also makes is that the future of the chemical enterprise will be shaped and defined by Generation Y entrepreneurs. It is critical that we engage this young group of budding chemists and chemical engineers in supporting and shaping the future of our local section. To that end, we have a new Younger Chemist Committee Chair, Allison Rector, and she will be seeking your ideas for new programs and events that will appeal to younger members. Of course, Joe is a big supporter of innovation and "outside-the-box" thinking from *all* ACS members, so to that end, we encourage *all* of you to provide us with your input on new programs you would like our local section to develop or events we should sponsor, and we'd love to have your help in getting new programs off the ground, so please consider getting involved!

Happy New Year!

Jeannie Phillips  
2010 Chair, ACS Indiana Local Section

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

## ACS Tour Speaker at Ball State University

Dr. Suzanne Lomax from the National Gallery of Art spoke at Ball State University on Thursday, September 23<sup>rd</sup> about the examination of works of art through chemistry. She discussed how scientists help with the conservation and restoration of art objects, focusing on paintings from the National Gallery of Art collection. She talked about the many techniques used to identify pigments, waxes, binders, and organic dyes; examine varnish layers; identify areas retouched from previous treatments; and identify and examine under-drawings on a painting. Following her presentation, Dr. Lomax entertained questions from the audience. Her candid responses gave insight into the complexities of working with art curators and the difficulty of analyzing small samples. Over 70 people were in attendance, including high school students, undergraduate students, and people from the Muncie community. Thanks to Dr. Lomax for her time.

Jason Ribblett

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## 10th Annual Poster Session at Dow AgroSciences

On Thursday October 15<sup>th</sup>, the Indiana Local Section of the American Chemical Society hosted its 10<sup>th</sup> Annual Poster Session at Dow AgroSciences LLC. The event attracted poster presentations from industrial scientists, undergraduate, and graduate students from across central Indiana as well as a diverse array of attendees from industry, academia, and high schools. The event was co-sponsored by Dow AgroSciences and Eli Lilly & Co. with additional support from the Local ACS Section. Over 120 people attended the event and 45 posters were featured. Academic poster presenters hailed from Ball State University, Indiana University - Kokomo, IUPUI, DePauw University, Anderson University, Earlham College, Butler University, IU School of Medicine, Manchester College, and the University of North Dakota. Local industry was represented by Dow AgroSciences,

Eli Lilly & Co., AIT Laboratories, Dynaloy LLC, and Polaris Laboratories. At the poster session, attendees were treated to tours of Dow AgroSciences' research and development facilities where biotechnology and product formulation technology were highlighted topics. Participants enjoyed appetizers and desserts for dinner, which ran short due to the overwhelming turnout of attendees, and a keynote address by Dr. Ralph O. Allen, professor of chemistry and director of environmental health and safety at the University of Virginia, entitled "Uncovering the Secrets of the Ancient Nile."

John Atkinson

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## Wizards Academy Amazes Young Scientists

On Sunday, October 25, thirty six aspiring young wizards gathered with their families at the Indiana Medical History Museum. In this, the fifth session of the Wizards Academy, some serious science education magic was performed with elementary and middle school students from around the Indianapolis area.

At the initial session, students and their families were treated to a presentation of magical creatures by the outreach team of the Indianapolis Zoo. Parents were then informed about the importance of science activities at home by the renowned Dr. Michael Cohen of the IU School of Education, while the Academy's students attended 'classes' throughout the museum. Classes included hands-on experiments in making slime, examining polymers with 'gravi-goo,' surfactant behavior through soap bubbles, and scrutinizing the behavior of Pop Rocks and carbonated soda.

The support of the American Chemical Society's Indiana Section once again made this delightful event possible. Further information can be obtained through Sarah Halter, Director of Public Programs at the Indiana Medical History Museum ([www.imhm.org](http://www.imhm.org)).

Ann Cutler

# National Chemistry Week Events

The Indiana Section of the American Chemical Society celebrated the 2009 National Chemistry Week theme of "Chemistry-It's Elemental" by sponsoring a canned food drive and by organizing a full day of activities and events related to the periodic table on Saturday, November 7, 2009, from 10 AM – 3 PM at The Children's Museum of Indianapolis.

There was plenty to do! Guy Hansen and his Chemistry is a Blast! team from Eli Lilly & Company delighted and thrilled over 500 guests with four shows demonstrating the fun and explosive nature of chemistry, Jaclyn Barrett and her Kids in Chemistry team provided five workshops for kids to learn how to make Jiggle Jelly, and "Mad Scientist" Sam Wendel excited children about chemistry with his hands-on activities. In addition to these events, volunteers from Dow AgroSciences, AIChE, Ball State University, Butler University, Hoosier Gasket Corporation, Iota Sigma Pi, Lancaster Laboratories, University of Indianapolis and DePauw University provided interactive experiments and demonstrations that enhanced the understanding of chemistry and how elements are present in our daily lives.

The activities on Saturday were kicked-off with an awards ceremony honoring the winners of the high school competition, t-shirt design contest, and the canned food drive. For the high school competition, thirteen high schools submitted videos with skits and experiments that incorporated the 2009 theme. All of the schools received a Merck Index, which was donated by Merck & Company. The video submissions were judged according to the following criteria: a) use of the theme "Chemistry-It's Elemental"; b) innovation; c) hands-on activities; and d) teamwork. All of the schools did an excellent job, which made judging a real challenge! Ultimately, the following were selected as winners:

## First Place Plaque and \$500

Ben Davis High School

## Second Place Plaque and \$300

Warren Central High School

## Third Place Plaque and \$150

Irvington Preparatory High School

## Honorable Mentions

Westfield High School and Delta High School

The canned food drive contest was held prior to the activities on November 7<sup>th</sup> amongst area academic institutions and industries. A total of 525 cans were donated to Wheeler Mission in Indianapolis, IN. Dow AgroSciences won the contest by donating 350 cans, Hoosier Gasket placed second, AIT Laboratories placed third, and Ball State received fourth place. Thanks to all who participated!

Every year, NCW volunteers receive a NCW themed t-shirt for participating in NCW. Usually the t-shirt is designed by an ACS member. This year, we organized a t-shirt design contest and had an overwhelming response from area 5<sup>th</sup> and 6<sup>th</sup> grade students. This year, Tyler Mobley, a 6<sup>th</sup> grade student from Speedway, won the t-shirt design competition. His class received a pizza party, and Tyler and his family were invited to join us at The Children's Museum. It was very exciting to see everyone wearing t-shirts with his design! Congratulations Tyler!



We would like to extend our thanks to all of the volunteers who helped make the 2009 NCW a success! A very special thanks also goes to the staff at The Children's Museum of Indianapolis who helped us coordinate an outstanding event!

We look forward to seeing you next year!

Amy DeBaillie and Kevin Weber  
2009 NCW Co-Chairs



## 2010 Election Results

The Indiana Section is proud to announce the election of the following officers for 2010. Thanks to all who voted. The Indiana Section experienced a 250% increase in participation this year using the electronic voting.

**Chair:** Jeannie Phillips

**Chair-Elect:** LuAnne McNulty

**Past-Chair:** Jason Ribblett

**Treasurer:** Kevin Weber

**Secretary:** Robert Sammelson

**Councilors:** Dawn Brooks, Robert Pribush,  
and Ann Hunt

**Alternate Councilors:** David Mitchell,  
Brian Mathes, and Lindell Ward

**Members-At-Large:** Ann Cutler, Richard  
Harper, and Jay Siegel

Jason Ribblett and Lindell Ward

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## President Obama Announces National Lab Day

On November 23, President Barack Obama announced the establishment of National Lab Day, an effort supported by ACS and 190 other organizations representing more than 6.5 million science, technology, engineering, and math (STEM) professionals.

The first National Lab Day is tentatively set for early May 2010 and will be part of a large, ongoing STEM initiative called "Educate to Innovate." ACS and other organizers hope National Lab Day will help stimulate more hands-on science learning by fostering enduring collaborations between individual STEM professionals, teachers, and students. ACS Chemistry Ambassadors are already making these connections. To join the effort or learn more, visit [www.acs.org/chemsityambassadors](http://www.acs.org/chemsityambassadors) and [www.nationallabday.org](http://www.nationallabday.org).

## Check It Out! Upcoming Events in 2010!

February 9th	The Chemistry of Flavors University High School - Andrews Hall See back cover for further details
February 27th	Science Olympiad Butler University 7:30 AM-5:00 PM
March 13th	ACS Scholarship Exam Ball State University, Butler University, and Earlham College 8:00 AM - 12:00 PM
April 25th	Science Day at the Delaware County Fairgrounds Muncie IN All day
May 11th	ACS Awards Night and Banquet Krannert Room of Clowes Hall, Butler University 5:30 to 7 PM
July 26th	Baseball Night at Victory Field Indians vs. Charlotte Knights 7PM
October 13th	ACS Poster Session 6 PM
October 24th	Wizard's Academy Indiana Medical History Museum 12 Noon
November 6th	National Chemistry Week Celebration The Children's Museum of Indianapolis



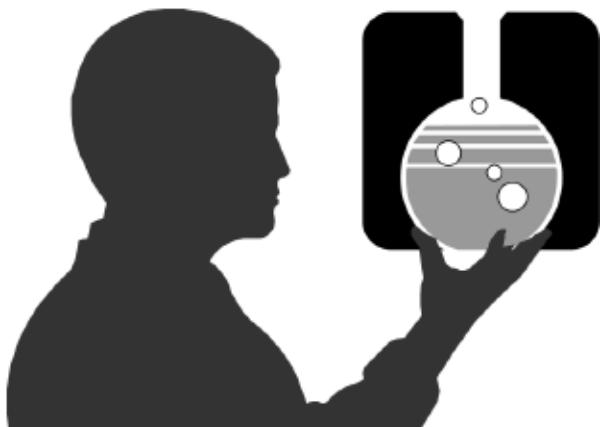
## Launch of the ACS Strategic Plan for 2010 and Beyond

The ACS Strategic Plan for 2010 and Beyond has launched online (<http://strategy.acs.org>) and for mobile devices (<http://strategy.acs.org/mobile>). The plan continues to provide the Society with a blueprint of how to fully realize our vision of “Improving people’s lives through the transforming power of chemistry.”

Our vision, mission, and core values continue as the foundation of the plan. The six strategic goals remain unchanged as they relate to our efforts to

- provide indispensable information,
- engage the global community,
- address global challenges,
- communicate with the public,
- advocate for the profession, and
- maintain financial health.

The plan for 2010 and beyond contains modest changes from earlier releases. The entire plan’s content, with the exception of the vision, mission, and core values, are structured around the plan’s goals. Throughout this past year, we have reviewed the external trends as well as the challenges and opportunities for advancing the plan, and we have developed strategies that enable the Society through chemistry to respond to the global challenges we face. Our measures of success were developed to ensure that our strategies advance. To learn more about the ACS Strategic Plan for 2010 and Beyond, visit <http://strategy.acs.org> to see the ways in which the Society is working toward making our vision of “Improving people’s lives through the transforming power of chemistry” a reality.



## Speak for Science

Less than 10% of the 535 members of Congress have backgrounds in science and engineering. Yet every day, legislators are asked to make important decisions that affect our nation’s scientific enterprise. You and your committee members can help them make informed decisions by joining the ACS Legislative Action Network (LAN).

The LAN is a Web-based political involvement program that gives you an easy, effective way to voice opinions on legislation effecting federal research to K–12 science education.

As you may know, for decades ACS has been a respected source of information and advocacy on Capitol Hill. Often this input is provided in formal testimony before committees and panels making decisions on spending and legislation relating to science and engineering.

But just as important, members of Congress listen to their *constituents* and value their timely input. That’s where you and your committee members can play a valuable role as members of the LAN.

Prior to key congressional decisions, ACS staff sends e-mail alerts to LAN members with background information, the analysis of the potential effect an issue would have on the scientific enterprise, and ACS’s position. By clicking on a Web link, participants can go directly to the ACS Legislative Action Center, where they are given background information on the topic and a proposed message that can be easily personalized and sent directly to legislators—the entire process takes only a few minutes.

It’s free, simple, and done entirely via the Web. But more to the point, by participating in the LAN, chemists can impact federal policies critical to chemistry and our nation. Please register online at [www.act4chemistry.org/register.cfm](http://www.act4chemistry.org/register.cfm).

If you would like more information on the Legislative Action Network, please contact the ACS Office of Public Affairs at 1-800-227-5558, ext. 4386, or [b\\_smith@acs.org](mailto:b_smith@acs.org). Participate and become your legislators’ “face of science.”

## Upcoming ACS Webinar Events



**Love Food as well as Chemistry? How to Find and Build a Career in the Food and/or Flavor Industries.** Curious about the smell of cookies baking? Or how researchers try to isolate vanilla flavor? Know yourself, discover your passion, and weave it into your career! These and much more is what our speaker has combined and built into a successful career. Learn from our speaker how you might also be able to combine your passion in food and chemistry into a career in the exciting world of food and flavor. Join the conversation with speaker Carolyn Fisher, Regulatory Manager at McCormick. She is also an author, instructor, and food flavors aficionado.

ACS Webinars: *Your Career Matters! Series* – Thursday, Feb 11, 2010, 2:00-3:00 PM ET; free registration and more information online at <https://www2.gotomeeting.com/register/639896810>

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**East Meets West: Global Opportunities in Asia Pacific.** Eager to tap into career and business opportunities in China? China is rapidly transforming itself into a high tech powerhouse. Increasing number of companies are setting up

R&D centers in China. While China may offer many career and business opportunities, one needs to learn about the political and cultural landscape to successfully capitalize on the country's dynamic growth. Learn from our speaker Ronghui Gao, Business Development Director at BioBay China, how scientists and businesses can capitalize on their Eastern and Western strengths.

ACS Webinars: *Small & Medium Business Series* – Thursday, Feb 25, 2010, 2:00-3:00 PM ET; free registration and more information online at <https://www2.gotomeeting.com/register/895099802>



**Failure is an Option: Learn How to Turn Failure into an Advantage.** We are all familiar with failures and yet failures carry a negative stigma to both individuals and companies. Just as the phoenix can rise from the ashes, successful individuals and companies are those

who have successfully turned failures into advantages. Join us to learn from our speaker Ben Yerxa, Executive Vice President & Chief of R&D at Inspire Pharmaceuticals, the art of calculating risks and taking charge of setbacks. You too can turn failures into success.

ACS Webinars: *Executive View! Series* – Thursday, Feb 18, 2010, 2:00-3:00 PM ET; free registration and more information online at <https://www2.gotomeeting.com/register/328208619>



**Online Monitoring for Water and Wastewater Processes – Global Sustainability at Your Fingertips.** Do you know that the global market for water treatment products is a \$44 Billion industry? The spending and needs for products and experts in this field is expected to grow with the escalation in global

water demand and consumption. If you are interested in learning about the latest in online monitoring equipment, how to meet water regulatory requirements for your company, or to discuss new opportunities in the area of global sustainability, you can not afford to miss this seminar. Join us with our speaker Ed Askew, of Askew Scientific Consulting, to explore the latest trends in technology and learn best practices for online water monitoring.

ACS Webinars: *Professional Growth and Devel-*

opment Series – Thursday, Mar 4, 2010, 2:00-3:00 PM ET; free registration and more information online at

<https://www2.gotomeeting.com/register/338640195>



**Developing Career Skills to Compete in a Global Economy – Observations of AMRI Operations in India, Singapore, Hungary and the United States.** Do you know how your skills compare to scientists from other countries? Would you like to learn how to stay

competitive in the integrated global economy? The global business landscape for chemistry has changed and scientists must adapt. Our speaker Michael Trova, Senior VP of Chemistry at Albany Molecular Research Inc., will share his observations of R&D operations in various countries. Join us to learn how you can develop your career skills and be competitive in this global era. *ACS Webinars: Your Career Matters! Series – Thursday, Mar 11, 2010, 2:00-3:00 PM ET; free registration and more information online at* <https://www2.gotomeeting.com/register/658331530>

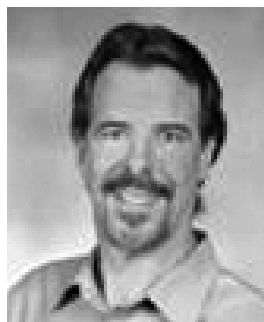


**Staying ahead of the game: Recent innovations in computational methods for drug discovery.** Looking for new ideas in your research projects? Want to know if computational methods can help? Knowing when to use a certain tool in your research is as crucial as deciding whether you should use it. Advances in computational methods have greatly sped up drug discovery, but it is not without its setbacks. Our speaker Woody Sherman, Vice President of Applications Science at Schrödinger Inc., will discuss the successes of computational modeling and how to benefit from failures and avoid costly mistakes. Join us as we probe the secrets of when to deploy computational methods and how to get the innovations you want.

*ACS Webinars: Professional Growth and Devel-*

opment Series – Thursday, Mar 18, 2010, 2:00-3:00 PM ET; free registration and more information online at

<https://www2.gotomeeting.com/register/464892763>



**How to Grow Your Small Business into a Large Corporation – The Story of SAIC and the Secret Sauce of Employee Ownership.** Want to learn the secret to growing your business by empoweing your employees? Employee ownership – giving

employees a stake in the growing value of their company – has been validated repeatedly as a strategy that gives companies a real competitive edge. Of course, the concept is fairly simple. But how does it actually work? Join us with Martin Staubus, Director of Consulting at the Beyster Institute, to learn how small and medium sized companies, and their employees, can create a system of employee ownership that is tailored expressly for their individual needs. We will also learn how SAIC has used the employee-owned model to grow from a small technology company into an \$8B powerhouse.

*ACS Webinars: Small & Medium Business Series – Thursday, Mar 25, 2010, 2:00-3:00 PM ET; free registration and more information online at* <https://www2.gotomeeting.com/register/544943954>



The Indiana Section of the ACS presents...

**The Chemistry of Flavors**

Sara Risch

**Tuesday, February 9th 7 PM**

University High School – Andrews Hall

2825 W. 116<sup>th</sup> St

**A 10lb bag of Jelly Beans will be raffled off!!!**

A flavor tasting via jelly beans and candy will highlight the evening

Light refreshments provided No need to RSVP

To find up to date information about Local Section activities,  
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The ***Accelerator*** Newsletter

American Chemical Society

Indiana Section

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