



The

Indiana Section of the American Chemical Society

# Accelerator

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

## Chair's Corner

January marks the beginning of the calendar year. It sparks countless New Year's resolutions. Despite the cold winds of winter, there is a fresh feel of renewal. Within the local section of the ACS, we are similarly renewed with possibilities as we welcome new volunteers to the executive committee. For my first chair's corner, I would like to tell you a little about myself, identify some of the people that are new to our executive committee, and highlight some of the great activities we have been planning for this year.

I became involved with the Indiana Local Section about four years ago. I was looking to broaden my horizons and meet fellow chemists in the area. My first job in the section was secretary where I began to understand all the work behind the mailings I received advertising events in the area. Last year, I served as the chair-elect of the section and currently am serving as the chair of the section. I have learned a lot about the people that make up the local section. They are tireless volunteers, creative planners, organized accountants, and wonderful mentors, all of whom are amazingly generous with their time.

Erin Dotlich is the new secretary of the Indiana local section. Erin has been active in the section for a couple of years. Her most recent claim to fame in the section is her work with National Chemistry Week (NCW). I am happy to report that Erin will be doing double duty in the section this year as she serves as our secretary and continues her work with NCW.

Faith Musko is our new Younger Chemist's Committee (YCC) chair. It has been a few years since the section has had an active YCC. Faith is filled with enthusiasm and ideas, including a fun mixer just for members of the YCC. As a section, we need to reach out to all members, young and old. Faith has the energy to do that.

In later editions of the chair's corner, I plan to highlight other new members of the 2011 executive committee. These awesome volunteers include Viola Kimbowa, Nicole Botimer, Sibel Selchuk, Guillermo Morales, Paul Lewer and David Koehler.

The section has a lot of great events in the works for this year. One example is a career night that has an emphasis on non-traditional careers for chemists. I would like to solicit anyone in the section that has a job that is considered non-traditional to volunteer to participate in this event. As

**Chair's Corner** continued next page

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The Indiana Local Section of the American Chemical Society publishes the Accelerator three times a year. The Section is not responsible for statements or opinions printed in this publication. The Editor is responsible for all unsigned and staff articles.

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chemists we are trained to be problem solvers. This is a skill that is widely applicable to all manner of careers. I think this would be an interesting and relevant topic for those considering a career change as well as for those just starting their careers.

The biggest event this year is the Central Regional Meeting of the ACS, which will be held at the IUPUI conference center in June. Our planning committee is working hard to make this event relevant for all attendees. I hope to see you all there.

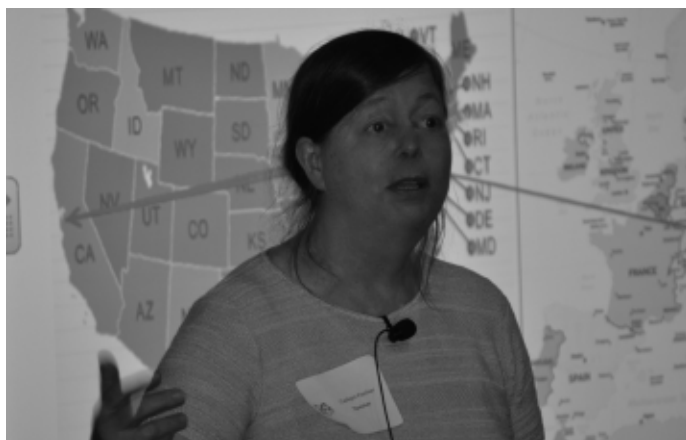
Thank you for letting me serve you. I am looking forward to this year.

**Lu-Anne McNulty**, 2011 IN Section Chair

## Career Night 2010 - a Spicy Success!



ACS Career Night 2010 – “Spice Up Your Career with Chemistry” was hosted by Butler University on September 27, 2010. Over 120 students and faculty registered for the event from 16 area high schools and universities – all coming together to hear real-world information on careers for chemists and how to prepare themselves for those roles. The keynote speaker, Dr. Carolyn Fisher of McCormick & Co., started the evening off by taking students along her career path as a flavor chemist – and had students guess the scents of several spice components as well!



*Dr. Carolyn Fisher, Keynote Speaker*

Additionally, after dinner, students rotated through a series of panel discussions led by academic and industrial chemists. Breakout sessions included interviewing tips, resume writing and a variety of speakers on their day-to-day activities as chemists. Professionals from Brannon & Sowers, P.C.; Dow Agro-

Sciences, Dynaloy LLC, the Indianapolis Museum of Art; the Indiana Department of Labor, IU School of Medicine, and Lilly spoke about their careers in and out of the lab, such as discovery, surface analysis, law, medicine, conservation science, and process chemistry.

Recruiters from Dow AgroSciences, Butler University and Kelly Scientific were on-hand to chat with interested students about internships, student programs and job opportunities. Thanks to the CN2010 Committee – Brenda Blacklock, Annette Brown, Kristy Bryan, Erin Dotlich, Viola Kimbowa, Kim Pollard, and Risa Spinks – for planning this event.

**Kristy Bryan**, Dow AgroSciences



*Students at the Event Registration Desk*

*Photos by Kristy Bryan*

## Younger Chemists Committee (YCC)

Hello Younger Chemists and welcome to a brand new year! My name is Faith Musko and I am the 2011 YCC Chair. I am here to assist you with your personal and professional growth and expanding your knowledge of the ACS. So what is a younger chemist? A younger chemist is an individual 35 years old or younger, or within the first 7 years of their career. This includes the student organizations as well, so those of you still in college we open the doors to you! Are you looking for social events to network with scientists in the area? Are you in need of guidance regarding how to get the most from your resume or how to write a cover letter? Are you interested in being more involved in your community or working with children? The YCC can assist with these ideas and more, but we need to hear from YOU! What do YOU want to see the YCC offer? What skills do YOU want to develop? (YCC, continued on page 4)



*Cultivating Chemistry at the Crossroads of America*

## CALL FOR PAPERS

42<sup>nd</sup> Meeting of the ACS Central Region

June 8–10, 2011

University Place Conference Center

Indianapolis, Indiana

[http://cerm\\_regional.sites.acs.org](http://cerm_regional.sites.acs.org)



Major Sponsors:

Dow AgroSciences

The Dow Chemical Company

Eli Lilly and Company

### Key Dates:

February 7

Abstract submission and advanced registration **opens**

April 13

Abstract submission **closes**

May 20

Advance registration **closes**

### Present your work at CERM2011

Papers are requested for a comprehensive set of **symposia** which cover a diverse array of interests:

**Agrochemicals:** Systems Biology, Natural Products, Flavors, Foods and Nutrition...

**Analytical:** Bioanalytical, Mass Spectrometry, Imaging, Chemometrics, Forensic Chemistry...

**Environmental:** Chemistry of the Great Lakes, Sustainability...

**Education:** Digital Resources, Organizing Coursework, Research and Practice, Curricular Reforms...

**Inorganic:** Organometallics, Transition Metals, Bio-inorganic...

**Medicinal:** Peptides, Lead Generation, Neuroscience, Molecular Imaging, 3<sup>rd</sup> World Medicine...

**Organic:** Technology Enabled Organic Synthesis...

**Physical:** QM Methods, Computer-Aided Drug Design, Nanotechnology, Lipid and Protein Dynamics...

**Polymer:** Biotech Applications, Green Polymers and Devices, Optical and Nano-composite materials...

**Small Business:** Stories of Success, Best Practices, Advanced Materials...

### Special Events

**Plenary lectures** highlighting the **International Year of Chemistry** themes:

**Dawn Shiang** Associate Director,

Sustainable Technologies & Innovation Sourcing,

**John C. Lechleiter** Chairman, President and CEO,

**Michael A. Evans** Founder, President and CEO,

**The Dow Chemical Company**

**Eli Lilly and Company**

**AIT Laboratories**

**Teacher and Career Development** Workshops

**Poster Sessions** Featuring the Ram Brewery's "Molecular Malt"

**Undergraduate** Research Symposia

**Exposition** showcasing vendors' latest products and materials

**Tour** of Indianapolis **Museum of Art Science Laboratory**

**Women Chemists Committee** luncheon featuring current CEO of ACS, **Madeleine Jacobs**

**Cultivating Connections** Networking Event with **live** entertainment

**Younger Chemists Committee/Student Affiliates** Luncheon featuring **Brian Fahie**, Senior Director,  
Bulk Analytical R & D, Eli Lilly and Company

42<sup>nd</sup> Central Regional **Awards** Reception featuring former ACS president, **Joe Francisco**

**... and much more ...**

**Make Plans to Join Us in Indianapolis to Celebrate the International Year of Chemistry!**  
**American Chemical Society**





(YCC, continued from page 2)

This year the YCC is developing ways to better serve you, The Younger Chemists. We are already planning social events for the 2011 year and are working on offering a Personal Branding Workshop. We would also like to initiate a mentoring program in the Indianapolis area. If you, a friend, or a fellow scientist would be interested in having or being a mentor, please let us know.

In order for us to offer the types of events that you all would attend, we need to hear from YOU! We encourage you to contact us if you have any ideas regarding a social or community event. Be on the look-out for a social mixer late March to early April!!

The ONLY person dictating your future is YOU!

**Faith L. Musko**

2011 YCC Chair

fmusko@aitlabs.com

## ACS Sponsored Brunch and Personal Branding Workshop

On Saturday December 4, the Indiana Local Section of the American Chemical Society sponsored an event hosted by the Women Chemists Committee at Dow AgroSciences LLC. This event comprised brunch and a Personal Branding Workshop conducted by **Lynn Zettler**, an Associate Certified Coach through the International Coach Federation and author of *STOP Talking To Me*.

The workshop focused on helping participants develop their Personal Brand and it provided a networking venue for female scientists in the greater Indianapolis area. Despite heavy snowfall the workshop was well attended; over 20 female scientists with diverse backgrounds and all levels of experience, ranging from college students to industrial executives, participated in this event.

The workshop was interactive and very engaging and thus received great reviews. One participant, Amy DeBaillie, thought "The Personal Branding Workshop was time well spent! I left the workshop with tools that I could immediately apply to my career and mentoring relationships." Another participant, Kristy Bryan, left the workshop with the following awareness: "Through the workshop, I realized that improving my vision of my own personal power would cascade to my body language, my speaking, my presentations – everything. Thanks to the ACS and Lynn for the inspiration!" Due to the success of this event, Lynn Zettler will be conducting another workshop titled "Your Career, Your Brand Workshop" on Thursday June 9 (8:30AM-11AM) at the 42<sup>nd</sup> Meeting of the ACS Central Region. Further information about this upcoming event and registration is available at the ACS Central Region site ([cerm\\_regional.sites.acs.org](http://cerm_regional.sites.acs.org)).



## Project SEED: Applications Open!

We are now taking applications for the high school summer 2011 award-winning science research internship program. The application deadline is April 1. Details are available on the program's website [www.indyprojectseed.org](http://www.indyprojectseed.org)

**Award Recognition.** On October 14 the students from the Indianapolis Project SEED were presented the ChemLuminary Award that was announced at the annual ACS meeting in Boston. The award was formally presented by Dr. Jeannie Phillips – Indiana Section 2010 Chair – and by Dr. Joe Francisco - ACS President - at the 12th Annual Poster Session at Butler University.

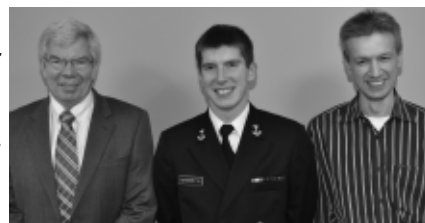
**Good News.** Students that participate in the SEED experience often springboard onto bigger accomplishments. Michael Ashmore from summers of '08 and '09 was accepted in the U.S. Naval Academy in Annapolis where he is majoring in Chemistry. He was recently accepted to a summer internship at Livermore National Laboratories in California, specializing in nuclear technologies. Michael credits his success to AIT Laboratories where he interned with research scientist Tim Dahn and gained skills and confidence. The company's CEO, Dr. Michael Evans, impressed with Michael's willingness to learn and work hard, wrote strong letters of recommendation endorsing his applications. Congratulations Michael!

### Elmer Sanders, SEED Program Coordinator



Dr. Joe Francisco (left) and Dr. Jeannie Phillips (top right) presenting the ChemLuminary Award to 2010 Project SEED students. The program's coordinator, Elmer Sanders, is in front right of podium.

Michael Ashmore (center) with mentor Tim Dahn (right) and AIT Laboratories CEO, Dr. Michael Evans (left).



## 2010 National Chemistry Week Report

The Indiana Section of the American Chemical Society sponsored the 19th annual National Chemistry Week celebration at the Indianapolis Children's Museum on Saturday, November 6th 2010 from 10 AM to 3 PM. This year's theme was "Behind the Scenes with Chemistry". The celebration provided a full day of fun, exciting chemistry activities and events that showcased how chemistry is the true source behind the apparent "magic" shown on current TV shows like MYTHBUSTERS and in books like *The Science of Harry Potter*.

This year's publicity efforts were very successful and advertising for the event through WFYI public radio, local news event calendars and flyers contributed to a record 5125-person museum attendance on the day of the 2010 NCW event, which was an increase of 2012 people over last year's attendance. This attendance number excludes the record-breaking 270 ACS volunteers who came to help make the event a success. We ran out of 600 gift bags for guests within an hour of the event opening! There was plenty for the guests to do. Guy Hansen and his *Chemistry is a Blast* team from Eli Lilly & Company delighted and thrilled over 500 guests with 4 shows demonstrating the fun and explosive nature of chemistry. Jaclyn Barrett and her *Kids in Chemistry* team provided 5 workshops for kids to learn how to make Jiggle Jelly, while "Mad Scientist" Sam Wendel excited children about chemistry with his hands-on activities. In addition to these events, volunteers from Dow AgroSciences, AIChE, AIT Laboratories, Ball State University, Butler University, DePauw University, Iota Sigma Pi (National Honor Society for Women in Chemistry), Lancaster Laboratories, Martin University, Trine University and University of Indianapolis provided interactive experiments and demonstrations that enhanced the understanding the "magic" behind chemistry.

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. Seven high schools participated in a competition by submitting videos with skits and experiments that incorporated the 2010 theme. Prizes included a Lab Quest instrument and \$700 worth of gift certificates donated by Vernier, a Merck Index donated by Merck & Company, along with lab manuals and material from Vernier and Flinn. The video submissions were judged according to the following criteria: a) use of the theme "Behind the Scenes with Chemistry" 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 se-

lected as winners:

- Ben Davis won the 1<sup>st</sup> Place Plaque, the Lab Quest instrument and a \$200 gift certificate from Vernier
- Irvington won the 2<sup>nd</sup> Place Plaque and a \$100 gift certificate from Vernier
- Fountain Central won the 3<sup>rd</sup> Place Plaque and a \$100 gift certificate from Vernier
- Union County received an Honorable Mention and a \$100 gift certificate from Vernier
- All participating schools received gift bags containing materials and books donated by Flinn Scientific and a few ACS goodies as well.

There was a great response from area 5<sup>th</sup>- and 6<sup>th</sup>-grade elementary students who participated in a contest to design this year's NCW t-shirt design. Emma Steinke, a 6<sup>th</sup>-grade student from Speedway, made the incredible drawing that won the competition, which was judged according to use of the theme and creativity. Her prize included a surprise pizza party for her classmates and museum tickets for her entire family on the day of the event. This year's canned food drive was a great success with a large response from Indiana University and the local ACS members. On Thanksgiving Day, all the canned food was donated to a Bloomington, Indiana food bank.

Finally, the 2010 National Chemistry Week celebration was a great success that was pulled off \$2600 under budget!! The NCW committee would like to express our true gratitude to the ACS volunteers, local companies and educational institutions which came together to help make this year's event a grand success! We also extend a very special thank you to the staff at the Children's Museum of Indianapolis who helped us coordinate such an outstanding event!

**Viola Kimbowa and Erin Dotlich**  
**2010 NCW Co-Chairs**

In October of 2010, attendees of all ages were dazzled by a presentation on the Chemistry of Toys. This presentation was by ACS tour speakers Drs. Lynn Hogue and Mickey Sarquis, former director and associate director of the Center for Chemistry Education at Miami University of Ohio, respectively. They are currently leading Terrific Science, an organization that promotes professional development and outreach, and host workshops that help underline the relevance of chemistry to the community. Their presentation at the University of Indianapolis covered the mysteries of popping straws, magic fish and even a demonstration of distillation using a hand-boiler! The evening was entertaining and delightfully enlightening, and everyone had a playfully good time.

**Ann Cutler, U. of Indianapolis**

## Upcoming ACS Webinars – March 2011

Indiana Local Section members can take advantage of ACS Webinars™

(<http://acswebinars.org/events>), which are weekly on-line events serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in chemical sciences, management, and business. The ACS Webinars are divided into several series that address topics of interest to the chemical and scientific community such as career development, professional growth, small & medium business and green chemistry. Each webinar is 60 minutes in length, comprising a short presentation followed by a question and answer session with the speaker. The live webinars are held on Thursdays (and on most Tuesdays during March) from 2-3PM ET. ACS presents these webinars as a free service to its members and scientific professionals.

Upcoming webinars in March which local members may find beneficial are:

- March 3, 2011 – “Seven Highly Effective Marketing Techniques for Chemical Consultants.” with Marc Halpern, [PTC Organics, Inc.](http://www.ptcorganics.com)



**March 10, 2011** – “Branding YOU! – Learn Why Marketing Yourself is Critical for Your Career” with Dr. Dawn Mason, Eastman Chemical Co., and Dr. Catherine Hunt, Dow Chemical Co.



**March 24, 2011** – “Know Your Drugs: A Pharmacology Primer for Chemical and Life Science Professionals” with Dr. Terry Kenakin, Director at [GlaxoSmithKline Research and Development](http://www.gsk.com)



**March 17, 2011** – “CSI Reality: Chemistry in the Crime Labs” with Dr. Jason Schaff, [FBI Laboratory](http://www.fbi.gov), Chemistry Unit.



**March 31, 2011** – “Advanced Chemistry of Beer and Brewing” with Dr. Charles Bamforth, Anheuser-Busch Endowed Professor of Brewing Science, [UC Davis](http://www.ucdavis.edu).

### March 2011 Special (Job Search Skill Series):

- **March 1, 2011** – “Today’s Job Search Strategies” with Lisa Balbes and Mary Moore.
- **March 8, 2011** – “Resume Writing for Scientists” with Lisa Balbes and John Engelman.
- **March 15, 2011** – “Sharpening Your Interviewing Skills” with Lisa Balbes and Donna Friedman.
- **March 22, 2011** – “Secrets to Getting the Most From the Anaheim ACS National Conference and Career Fair” with Lisa Balbes.

April webinars are currently in the process of being organized.

**Tanya Fogg** ([t\\_fogg@acs.org](mailto:t_fogg@acs.org)), ACS Webinars, Department of Member Communities, American Chemical Society, 1155 Sixteenth Street, NW, Washington, DC 20036



## AMERICAN CHEMICAL SOCIETY 2011 INDIANA SECTION HIGH SCHOOL SCHOLARSHIP EXAMINATION

This year's American Chemical Society Indiana Section High School Scholarship Examination will be held on Saturday, March 12, 2011. This examination will continue to reflect the Indiana Section commitment to highlight the quality of Hoosier students by providing them with an enhanced level of industrial and academic support for their education. Additionally, top students in the examination will be sent to the United States National Chemistry Olympiad (USNCO) competition, held at the United States Air Force Academy, not only to compete but to win a place on our national team. In the spring of 2010 our students were very successful. Of thousands of students who took the exam nationally, Indiana had one student in the national top 20 (thus earning the opportunity to attend the workshop and competition at the USAF Academy), two students in the national top 50, and another in the national top 150. Our goal this year is to have another student earn the right to go to the USAF Academy and make the U.S. team.

Once again Eli Lilly research chemist, Jianping Huang, who has extensive experience competing and coaching at the international level, will administer the examination. Additionally, Robert Pribush, Professor in Chemistry at Butler University will add his 37 years of university teaching experience to the effort. This year the examination will be held at three different sites: Ball State University, Butler University, and Earlham College. Examinees will select the site that is most convenient for them and their teachers. The Scholarship examination instrument will be the one that is provided by the ACS Examinations Institute, used by most sections as the preliminary screening examination for the USNCO exam, with some additional questions that are written by local examiners. Copies of Local Section exams from previous years can be downloaded from the website (<http://portal.acs.org>; follow the path: Home > Education > Students > High School > Chemistry Olympiad > Past Exams).

Local teachers are encouraged to share this information with their students, as well as instilling in them the excitement of competing for scholarships that can be used at any university that they might attend in the future. Additionally, there are book awards, team awards and the possibility of becoming a member of the United States National Chemistry Olympic team. Challenge your best students to participate in this year's Indiana Section High School Examination.

Local section students who might not have heard about the exam from their teacher are also encouraged to take the exam. More information is available from Prof. Pribush ([rpribush@butler.edu](mailto:rpribush@butler.edu)) or by asking your high school teacher to formally nominate you.

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Co-chairs, Indiana Section USNCO	

## 2010 End of the Year Celebration and Volunteer Recognition Event

2010 was an outstanding year for the Indiana local section, due in no small part to the volunteers who helped us plan and carry out our many events and programs. To recognize these folks for their excellent service to the local section, we had a celebration at the RAM Brewery on December 15. It was a nice opportunity not only to say thank you to our volunteers but also to get to know them better and encourage them to continue to be involved in the ACS. After dinner and a bit of socializing, we had an informal but much appreciated awards ceremony. Four ACS Salute to Excellence Awards (below) were given to new volunteers who independently planned and carried out events. One of these events, the National Chemistry Week, was so successful it will be nominated for a ChemLuminary Award.

- Kristy Bryan – Career Night
- Erin Dotlich and Viola Kimbowa – National Chemistry Week
- Negar Garizi – Women Chemists Committee - Personal Branding Workshop

We also recognized two individuals with special awards from the National ACS for their many years of service to the local section:

- Julie O'Brien – excellence in planning and running National Chemistry Week for several years.
- Pat Walsh – fourteen years of service as our local section's Treasurer and budget overseer.

We also took the opportunity to recognize our Chemistry Ambassadors: Amy DeBaillie, Guy Hansen, Brian Mathes and Jeff Ward. These folks received pins from ACS Past President Joe Francisco at our annual poster session in October, but it was a nice chance to acknowledge their service to the ACS once again.

All in all, it was a great evening, and we look forward to doing it again at the end of 2011 with many more awards to give out to new and long time volunteers.

**Jeannie Phillips**  
**Past Chair, ACS Indiana Local Section**

## Indiana Section Calendar for 2011

March 15:	Dr. David Koehler, Weidman Diagnostic Solutions Inc.; "Power Transformer Insulating Fluid Testing"
April 23:	Science Day at the Delaware Co. Fairgrounds, hosted by Jason Ribblet, Ball State University, Muncie, IN
May 10:	Awards Night - Butler University (5:30 to 7:00 PM)
May 18:	Dr. Michael Tunick, USDA; "The Chemistry of Cheese"
June:	<i>Recycling Hazardous Waste into Products, Heritage (details to be determined)</i>
July 19:	Baseball Night at Victory Field: Indianapolis Indians vs. Charlotte Knights; 7:00 PM
September:	<i>Career Night (details to be determined)</i>
October 13:	<i>ACS Poster Session (location to be determined);</i>
November 5:	National Chemistry Week Celebration; Children's Museum of Indianapolis ( <i>details to be determined</i> )

**Brian Mathes**

To find up to date information about Local Section activities,  
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