



The

Indiana Section of the American Chemical Society

Accelerator



Chair's Corner

Two years ago when I decided to run for Chair Elect of the Section, I had no idea what I was getting into. I had been the secretary of the local Section for two years, which was a great job. At the end of my tenure as Chair, I have learned that it takes far more to keep the Section running than taking minutes for the meeting.

In the past six weeks, the Section has put on three events. The first two events were leadership workshops targeted at members who wanted professional development. Surprisingly, despite strong registration, the turn out for each event was low. On the other hand, this past weekend was the National Chemistry Week (NCW) at the Children's Museum. Over **eight hundred** people passed through the doors in the first two hours. Despite this success, participation in the high school event associated with NCW was the lowest in past years.

Our Section strives to provide programming for all members of the chemistry community but it does not work if we do not have participation. I encourage you to take advantage of the opportunities available from the local Section. Although we are all busy with work or other commitments, one night or afternoon is only a little to ask and the benefits may surprise you. Although the professional development is certainly beneficial, the more important thing is the professional contacts you may make in the area, which could provide you with a new friend or maybe even a job in the future.

I would personally like to congratulate Amy DeBaillie for writing proposals to the National office of the ACS to provide funding for the leadership development courses, Roger Rothhaar for coordinating the annual poster session and to Erin Dotlich and Viola Kimbowa for planning the outstanding National Chemistry Week event at the Children's Museum.

I have been honored to serve in the role of Chair for the Indiana Local Section. Over the course of the year I attended many of our events, including the "chemistry of cheese" event at Kahn's, which was a fun event with fabulous cheese and wine. I observed high school students and fifty-year members at

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

the annual awards night. At the annual poster session, I met many of the presenters and learned more about the opportunities provided by Biocrossroads Indiana. Thanks to my position as Chair, I felt compelled to attend each of these events, and others, and found that I was enriched by the experience.

LuAnne McNulty – Butler University

Celebrate Science Indiana

Celebrate Science Indiana (CSI) is a public event that demonstrates the importance of studying science and the joy of discovery, the economic value of science, and its significance to society. The event was held at the Indiana State Fairgrounds on October 8 from 8 AM to 5 PM and admission was free. CSI provides an opportunity for individuals of all ages, knowledge levels and interests to conduct hands-on activities, interact with scientists, explore opportunities and ask questions about educational and professional possibilities in the STEM (Science, Technology, Engineering, and Math) areas.

Attendees at the 2011 CSI event enjoyed a number of science presentations and discussions which included an inspiring presentation by astronaut Stephen K. Robinson. They also were able to participate in a range of fun, educational, hands-on activities at the numerous exhibitor booths.

Plans are already underway for CSI 2012 which will be held on Saturday, October 6, 2012 at the Indiana State Fairgrounds. The people of Celebrate Science want to extend thanks to the ACS for their involvement in the event and for providing many volunteers.

Erin Dotlich, Kelly Scientific



Photo by Erin Dotlich

Upcoming Workshop: “Dressing for Success”, Sponsored by the Women’s Chemistry Committee (WCC)

The WCC is sponsoring a dinner and workshop on how to dress for success on Thursday, December 1 from 6 – 9 PM at the Skyline Club in downtown Indianapolis. The featured speaker will be Ms. Sharon Parker, who is an independent fashion consultant with CAbi, Carol Anderson by invitation, and has over twenty-five years of fashion design experience. Sharon has been dressing with a purpose for years and finds great joy in helping other women do the same.

At the workshop, one will learn how to : 1) Identify individual styles 2) Build a wardrobe foundation and 3) Understand business casual do’s and don’ts.

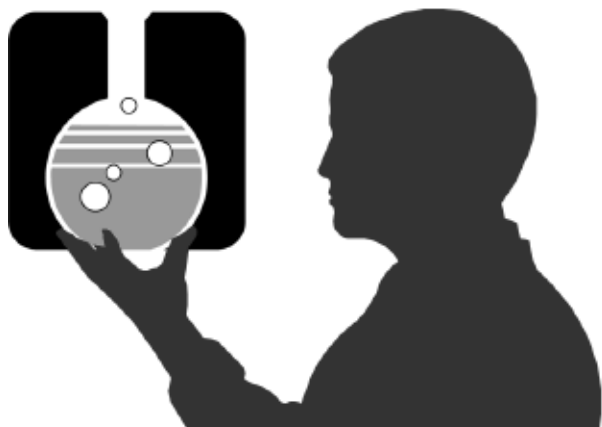
The event is only for ACS members. There is no charge for the event.

To register for the dinner and workshop, e-mail **Amy DeBaillie** at debaillie_amy_c@lilly.com by November 21.

Congratulations to the 2012 Indiana Local Section Executive Committee Officers and Members at Large!

Chair:	Guillermo Morales, Vice President of Business Development, CGeneTech, Inc.
Chair Elect:	Sibel Selcuk, Chief Scientist, Heritage Research Group
Secretary:	Erin Dotlich, Analytical Chemist, Kelly Scientific
Treasurer:	Paul Ridenour, Certifying Chemist, AIT Laboratories
Councilor:	David Mitchell, Research Advisor, Eli Lilly and Company
Alternate Councilor:	Amy DeBaillie, Research Scientist, Eli Lilly and Company
Members at Large:	Craig Kemp, Research Scientist, Eli Lilly and Company Viola Kimbowa, Analytical Chemist, Eli Lilly and Company Josh Taylor, Associate Chemist, Dow AgroSciences

Jeannie Phillips



ACS INDIANA LOCAL SECTION IS BUILDING A CHEMISTRY-THEMED PLAY ROOM FOR THE YOUNG PATIENTS OF ST VINCENT CLINIC

Each year ACS funds new local section projects through Local Section Innovative Project Grants (IPGs). Following this year's successful IPG event; "High School Chemistry Teachers to Inspire Area Youth," I am happy to announce that our Section was awarded an IPG Grant for "Building a Chemistry-Themed Playroom for St. Vincent Health." For the project, Peyton Manning Children's Hospital at St. Vincent and the ACS Indiana Local Section identified the Immediate Care Clinic on North Michigan Road as the location. We will be building a chemistry- and science-themed play room for young patients of the clinic, who hopefully will be the future chemists and engineers of Indiana. The project time line and details will be announced in following editions of the Accelerator and via email. Meanwhile, if you have ideas and would like to get involved please contact Sibel Selcuk at Sibel.Selcuk@hrglab.com. We will need volunteers who like to build and paint rooms, as well as to purchase the toys and furniture for the playroom. Those with an artistic touch will be greatly appreciated for the detailed wall painting.

Sibel Selcuk, Heritage Research Group

A Dozen Years of Indiana ACS Section Poster Sessions

On Thursday, October 13, 2011, the Indiana Section of the ACS held its twelfth Local Poster Session, at Eli Lilly and Company Corporate Center. Approximately seventy posters were presented which represented five industrial companies, fourteen area colleges and universities along with ACS Project SEED students. The group of one hundred seventy attendees was very engaging and interactive. After the poster session, participants attended dinner and were treated to an after dinner presentation by Mr. Brian Stemme of BioCrossroads Indiana. His presentation topic: "Indiana's Life Sciences Sector: 2002-2010 – Tracking Progress and Chartering the Course for Continued Success" was inspiring and well received by the hundred twenty-four dinner guests. The event was organized and hosted by Mr. Roger Rothhaar (Eli Lilly and Company) with assistance from his colleagues Mickey Hawk and Rachel Ritchie.

David Mitchell, Eli Lilly and Company

Twelfth Annual Indiana Local Section American Chemical Society Poster Session

(Photos courtesy of Elmer Sanders)



High School Chemistry Scholarship Examination and National Chemistry Olympiad Opportunities

Do you know a motivated high school student that loves chemistry? Do you know a student that wants to earn scholarships and national recognition for their abilities? The 2012 American Chemical Society Indiana Section High School Scholarship Examination will continue the Indiana Section's commitment to Hoosier students by providing them with an enhanced level of industrial and academic support. Our ultimate goal is to send Indiana students to the United States National Chemistry Olympiad (USNCO) competition at the United States Air Force Academy and go on to win a place on our national team.

Our 2010 and 2011 students were very successful with top-twenty placements going on to the Academy and several others scoring in the top one hundred fifty nationally. We anticipate even stronger performance in 2012 and our goal this year is to put a Hoosier on the United States national team!

To bolster performance for truly motivated students, we are now offering free tutoring to twenty students to prepare them for these national exams. Tutoring starts on January 21 and interested students should contact Dr. Bob Pribush at rpribush@butler.edu as soon as possible to receive information and an application.

As in the past, the American Chemical Society Indiana Section High School Scholarship Examination will also serve as the preliminary screening exam for the USNCO competition. The test this school year will be held on Saturday, March 3, 2012 at three different sites: Ball State University, Butler University, and Earlham College. All high school students are eligible to take this examination, regardless of participation in tutoring.

Students should select the testing site that is most convenient. This 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 members of the ACS Indiana Section. Copies of Local Section Exams from previous years can be downloaded from the website or requested by e-mail. For further information about the Scholarship examination, financial awards for top scores and the USNCO exam, please email Dr. Pribush at rpribush@butler.edu.

Bob Pribush and Elmer Sanders

Leadership Development Courses in October and 2012

The Indiana Section of the ACS sponsored two leadership development courses during the month of October on the Butler Campus: Coaching and Providing Feedback on Oct. 1, and Fostering Innovation on Oct. 29. These courses were offered by the local Section for members and non-members to develop critical leadership skills that are useful in the workplace and in their volunteer roles. The courses are made possible via grants from the ACS.

The following four-hour facilitated courses are available for 2012 programming: 1) Engaging Colleagues in Dialogue, 2) Leading Change, 3) Leading without Authority, 4) Developing Communication Strategies, 5) Collaborating Across Boundaries, and 6) Strategic Planning. If you have a strong interest in any of these courses, contact **Amy DeBaillie** at debaillie_amy_c@lilly.com by January 1, 2012.

National Chemistry Week

On November 5th, our section celebrated National Chemistry Week at the Indianapolis Children's Museum. Approximately five thousand people attended the event. Eight hundred gift bags and five hundred lab coats were given to children within the first two hours.

The event kicked off at 10 AM with over fifteen booths hosting various hands-on activities for children. Booth activities included face-painting, extracting DNA from strawberries, magic colored milk, buckyball creation, polymer experiments, floating pop cans and sugar analysis - just to name a few. This year, the Colts cheerleaders had a booth to meet people, sign autographs and take photos. The girls were very kind and interactive with the crowd.

At 10:15 AM an awards ceremony was held in the Lilly theater. The top three schools in an area High School video contest were announced. Prizes for these schools included laboratory supplies such as pH

National Chemistry Week continued next page.

equipment, Lab Quest systems, science literature as well as gift certificates for science supplies.

The winners were:

1st: Ben Davis High School

2nd: Union County High School

3rd: West Lafayette High School

The winner of a T-shirt contest was also announced at the awards ceremony. Jacob Einstein, a fifth grader from Newby Elementary School drew the design for the T-shirt that was worn by over two hundred volunteers and students throughout the museum. Jacob's family was certainly excited and mentioned that it was so incredible to see something their son drew being worn by so many people. For submitting the winning design, Jacob won a pizza party for his class and a museum membership for his family.



Photos by
Bob Weins



Following the awards ceremony, the Lilly Theater hosted an interactive show entitled "Chemistry is a Blast". In this show, Guy Hansen of Eli Lilly and Company did a variety of experiments on stage and allowed children in the audience to participate in his experiments. The participants were able to safely create "elephant smoke", and to explode balloons filled with various gases, which taught them about flammability.

Not included in the day's events were a community "canned food" drive which is currently being held at the IU Bloomington campus (proceeds going to Hoosier Hills Food Bank) as well as an Illustrated Poetry contest held in October. Local area students were asked to submit an illustrated poem at the local level. The winning student in each division was awarded a \$50 Wal-Mart gift card and their work was submitted to the national ACS office for a chance at winning a \$300 prize. Winners will be announced after November 7th.

The event coordinators of NCW cannot thank the committee enough for their efforts and work on the event. We would like to recognize the following individuals:

Paul Rideour (HS Competition Chair)

Ronnie Williams (T-shirt Competition Chair)

Richard Harper (Company and University
Booth Chair)

Matt Kriech (ACS Booth Chair)

Gina Ammerman (Volunteer Chair)

Erik Stevens (Publicity Chair)

Kent Griffith (Community Chair)

We also want to recognize the many companies and universities that hosted booths. Many students and employees gave their Saturday to further children's understanding and appreciation of chemistry. For this we thank IU, IUPUI, Butler University, Mad Science, Lancaster Laboratories, Iota Sigma, Covance, Ball State University, Dow AgroSciences, The Indiana Geological Society, AIT, University of Indianapolis, Depauw University, The American Institute of Chemical Engineers and the Colts cheerleaders! We also wish to recognize Dow AgroSciences, The Indiana Pork Producers, The Indiana Dairy Council and Heritage Environmental for donations of items for the gift bags.

Erin Dotlich and Viola Kimbowa

2011 National Chemistry Week Event Coordinators

Celebrating the Future of Chemistry: Project SEED 2011 Program Banquet

Did you know that your ACS contributions have spring-boarded students to Harvard, MIT, Stanford and both the Naval Academy and West Point military schools? In the past four years, students of Project SEED have also been regional and national award winners in the Siemens and Intel competitions. These and many more accomplishments are worth celebrating and it would not have happened without your support of the Indiana Section's award-winning Project SEED.

Building on the rich legacy of humanitarian service since 1968, the 2011 summer program was a fantastic success. We had forty-five students involved in research at facilities from the Art Museum and Eli Lilly and Company, to the IU School of Medicine, IUPUI School of Science and Ball State University Chemistry Department.

We have already scheduled the 2012 banquet for July 18 and we would love you to come and join us to celebrate the accomplishment of these dedicated youngsters. It is very well possible that the next Einstein, Curie or Steve Jobs will be sitting at your dinner table!

We were honored to have the Indiana Section Chair, Dr. LuAnne McNulty from Butler University deliver a message of gratitude to the mentors who logged over fifteen thousand hours of volunteer public service for the forty-five students in the eight week internship program. Also in attendance that night were our incoming 2012 chair, Guillermo Morales, and many other ACS Indiana members.

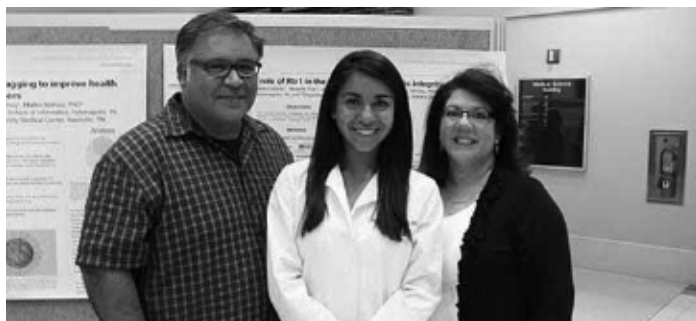
The accompanying photos capture the appreciation banquet and the summer program. More photos, videos and information are available at www.indyprojectseed.org. Are you interested in being a life mentor to some of these aspiring students? Or if you would like to host a student in your laboratory next summer, or be involved in many other ways, please contact the SEED Program Coordinator, Elmer Sanders at elmer.sanders@yahoo.com



Dr. Chad Zarse MD was a 2000 and 2001 Project SEED student. He is now a third year medical resident in Nephrology. He had his start in the 'Jim' lab of Dr. Jim McAteer and Dr. Jim Williams, kidney experts at the IU School of Medicine.



Most students report a strong sense of family in their experience with Project SEED. Rachel Hawn (center) did her research at the Veteran's Administration and coincidentally, her dad (next left in photo), who is a 'Vet, often goes to the VA for medical treatment. Brent Rogers, next right in the photo, is now studying Chemical Engineering at Purdue University.



Gabriela 'Gigi' Cabello and her parents at the 2011 Poster Session. Gigi is the President of the Senior Class at Ben Davis High School and because of her work with the Super Bowl is featured at <http://www.xlvifaces.com>

Dow AgroSciences Scientist Named Winner of 2012 ACS International Research Award

Dow AgroSciences researcher, Thomas Sparks, Ph.D., has been named winner of the 2012 International Award for Research in Agrochemicals by the Agrochemical Division of the American Chemical Society. The award recognizes and encourages outstanding contributions to research in agrochemicals. Sparks was recognized specifically for his exceptional accomplishments in applying new technology from a number of disciplines to the discovery of new pest control agents.

“We are extremely proud that an exceptional scientist of Tom’s caliber was recognized with such a prestigious international award,” said Dan Kittle, Ph.D., global leader, Research & Development at Dow AgroSciences. “Tom has demonstrated that using innovative approaches and combining understanding from multiple scientific disciplines can deliver greener, more sustainable solutions that also establish a new standard for performance in addressing the needs of a growing world. And it’s a particularly special honor this year, the International Year of Chemistry.”

Sparks will receive the award at the American Chemical Society’s 244th meeting which will be held August 19-23, 2012 in Philadelphia. The award includes a cash prize as well as the opportunity to organize a symposium at the meeting.

Sparks, a Dow AgroSciences Research Fellow, was instrumental in the development of the spinosyn class of insecticides, which provide natural control of a variety of insect pests while leaving beneficial insects unharmed. One active ingredient in the class, Spinosad, was recognized by the Environmental Protection Agency with a Presidential Green Chemistry Challenge Award in 1999. A next generation spinosyn, Spinetoram, was also recognized with a Green Chemistry Challenge Award, in 2008. The Green Chemistry Challenge Award recognizes technologies that incorporate the principles of green chemistry into chemical design, manufacture and use. Green chemistry encompasses chemical processes that reduce negative impacts on human health and the environment relative to the current state-of-the-art.

Sparks also has received a number of awards throughout his distinguished career. He was named

the 2009 Scientist of the Year by *R&D Magazine*, received, with his co-authors the Arthur E. Schwarting Award for Best Paper from the *Journal of Natural Products* in 2006, and delivered the Paul Dahm Memorial Lecture in Toxicology, Iowa State University, 2002.

Sparks holds a Bachelor of Arts in biology from California State University, Fresno, and a Ph.D. in entomology from the University of California, Riverside.

Moni Hancock and Paul Lewer, Dow AgroSciences

Younger Chemists Committee (YCC) News!

The YCC hosted a science day at Jameson Camp (<http://www.jamesoncamp.org/>) on July 30th. Jameson Camp is a youth camp, located on the west side of Indianapolis, dedicated to enriching the lives of Indiana youth by inspiring them to discover their strengths. The camp’s programs are developed to offer a progression of experiences that foster decision-making skills, leadership skills, and peaceful conflict resolution. The YCC had the opportunity to work with a special group of campers known as the Tataya Mato. A program unique to Indiana, Tataya Mato makes all the fun and discovery of a traditional camping experience available to children from across the state that are impacted by HIV/AIDS. Rather than focusing on the disease, Tataya Mato creates a relaxed environment where our children and teens can spend time away from the stresses associated with HIV/AIDS.



YCC continued next page.

The campers and staff enjoyed the experiments that we performed including: lava lamps, film canister rockets, disappearing water, shrinky-dinks, and each child received their own Gak to take home! The YCC had twelve volunteers come out to make this event a success: Mallory Dobson, Wendy Chiang, Seth Johnson, Scott Mercer, Paul Ridenour, Doug Metrish, Negar Garizi, Dan Randolph, Josh Moriarity, Gabby Allison and Dr. Jason Ribblett and his son.

The camp is looking forward to having us back next summer to offer more scientific programs to other divisions of the camp! If you are interested in volunteering with us, we would love to have you! Please contact me for opportunities or find us on Facebook – Indiana ACS Younger Chemists!

Happy Holidays to all!

Faith L. Musko,
Younger Chemists Committee (YCC) Chair
fmusko@aitlabs.com

Indiana Section Calendar: December 2011

December 1: Women's Chemistry Committee sponsored workshop "Dress For Success"; 6-9 PM at the Skyline Club (contact: Amy DeBaillie: debaillie_amy_c@lilly.com).

December 6: End of the Year Celebration and Volunteer Appreciation Dinner – 6-9 PM at the RAM Brewery (contact: LuAnne McNulty: lmcnulty@butler.edu)

Nicole Botimer

Interested in Getting More Involved with the Indiana Local Section of the American Chemical Society? Become Our Webmaster!

The Indiana Local Section of the ACS is looking for a Webmaster. The Webmaster is a member of the Public Relations subcommittee of the local section executive committee and is primarily responsible for maintaining and updating the local section website. Basic knowledge of HTML is recommended but not required. The Webmaster must be able to communicate clearly and efficiently with the local section executive committee and with the Publicity Chair and is strongly encouraged to attend monthly local section executive committee meetings. The work load is approximately 1-2 hours per month. Please contact LuAnne McNulty at lmcnulty@butler.edu if you are interested.



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