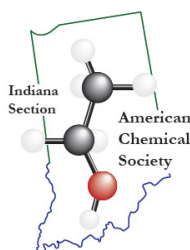


The

Accelerator

INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY



DECEMBER, 2013



Chair's Corner

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Another great year for the ACS Indiana Local Section passed by very quickly. When I look back I cannot believe how much we accomplished in twelve months.

I hope you all had a chance to join us in the Section events and I hope we

did a good job to inspire you to get involved more. We had our first National Meeting in Indianapolis and it was absolutely a great success. We could not have had this success without our volunteers and the dedication and hard work of the organizing committee.

As my extended two-year term as the Indiana Local Section Chair comes to an end I want to

thank each one of you for being a member, supporter, and a volunteer. It was at times challenging but needless to say a great two years. The success of the Section is truly the result of a hard-working executive committee and the event chairs. I would like to thank the 2012 & 2013 Executive Committee for making my job a blast. Please read the articles in this edition of the Accelerator that summarize the highlights of the year.

I hope you are as excited about 2014 as much as we are. Erin Dotlich will be our furious chair for 2014 along with a great team of executive members. I am looking forward to her leadership and excited about all the events she has in mind for the upcoming year. Please let us know if you want to volunteer and become a part of the executive family. We are looking forward to meeting you!!!

I wish all of you a wonderful Holiday Season and New Year!

Sibel

David Liang wins Gold at Chemistry Olympiad

David Liang, a junior at Carmel High School, was selected as one of four students nationwide to compete on the U.S. team at the forty-fifth International Chemistry Olympiad in Moscow, July 15-24. He competed with nearly twelve thousand U.S. students to earn the opportunity to take the National Chemistry Olympiad test. Out of more than one thousand of the nation's brightest chemistry students who took the

national test, he advanced to the top twenty, for the second year in a row! David then attended a rigorous two-week study camp at the U.S. Air Force Academy in Colorado Springs, where he emerged as one of the top four named to the U.S. team. In Moscow, David competed against two hundred ninety-one students from seventy-three countries and received a GOLD metal! Congrats to David and local Section members Bob Pribush and Jianping Huang for helping David accomplish this amazing feat!

By Andrea Lindsay Frederick, Eli Lilly and Company

Latest News

Web Date: June 7, 2013

2014 ACS Volunteer Service Award Goes To Robert Pribush

Honors: Butler University professor is being recognized for his service and dedication to education

By **Linda Wang**

Department: **ACS News**

Keywords: **awards, Pribush, volunteers, ACS**



The ACS Board of Directors has selected **Robert A. Pribush**, a professor of chemistry at Butler University, in Indianapolis, as the recipient of the **2014 Award for Volunteer Service to the American Chemical Society**.

Created in 2001, the award recognizes individuals who have contributed significantly to the society's goals and objectives. Pribush will deliver a keynote

lecture during the ChemLuminary Award Ceremony at the spring 2014 ACS national meeting in Dallas.

Pribush says he was surprised and honored to be selected for the award. He normally shies away from recognition, he says, but this award is particularly meaningful to him.

"I serve ACS as a way of saying thank you for the opportunities that chemistry has given me to have a career that I thoroughly enjoy and by which I can help students realize their intellectual potential and the impact they can make in the lives of others," he says.

Pribush's involvement in ACS began in 1972, when he joined the then-Younger Chemists Committee Task Force. In 1978, he became the second chair of the newly formed Younger Chemist Committee. Over the years, Pribush has continued to serve ACS, including as councilor for the **Indiana Section**, program chair of the **Central Regional Meeting**, and Indiana Section organizer for the **U.S. National Chemistry Olympiad**.

He has also been heavily involved with the ACS Division of Chemical Education Examinations Institute, serving as chair of the Diagnostic of Undergraduate Chemical Knowledge (DUCK) Committee, the Inorganic Chemistry Exam Committee, and the General Chemistry Exam Committee.

Pribush "provides imagination that brings new, big ideas to an event and programmatic discussion. He cooperates fully with others and is never short in his personal commitment, and he takes responsibility for his part, completing tasks in reliable and creative ways," says David J. Malik, a professor of chemistry at Indiana University-Purdue University Indianapolis, who has served as a councilor and vice chair for the ACS Society Committee on Education. "These are the qualities that make one's volunteerism substantive and memorable."

Pribush earned a bachelor's degree in chemistry from the University of Delaware in 1968 and a Ph.D. in chemistry from the University of Massachusetts, Amherst, in 1972. He completed a postdoc at the University of Southern California in 1974.

Pribush was involved with the Indiana Section's National Meeting lead team, which helped to organize, promote and get more students to attend the Fall 2013 National Meeting in Indianapolis, which was the first of its kind among local Sections.

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PRIBUSH WINS ACS Fellow

Bob received well-deserved recognition for service to our Section and we sure hope more will follow in the coming years. See the following note from ACS National, which also lists the other ACS Fellows:

From: ACS Fellows [<mailto:fellows@acs.org>]

Sent: Monday, July 29, 2013 4:56 PM

Subject: 2013 ACS Fellows

Dear Colleagues:

On behalf of the Fellows Oversight Committee, I am very pleased to provide you with the attached list of the 2013 ACS Fellows who represent your Local Sections. We hope that you will use this information to recognize your members who are being honored for their outstanding achievements in and contributions to the science/profession and service to the Society.

An official announcement with the complete list of 2013 ACS Fellows appears in today's issue of *C&EN* - <http://cenm.ag/2013acsfellows>. Photos and citations will be posted at www.acs.org/fellows.

Best regards,
Fellows Oversight Committee

*By Sibel Selcuk, Heritage Research Group
and Paul Lewer, Dow AgroSciences*

Triple tribute



Christina Bodurow, Ph.D.

Senior Director, External Sourcing, Development
Center of Excellence at Eli Lilly and Company
Executive Liaison,
2013 Fall National ACS Meeting
American Chemical Society, Indiana Section



Chris Bodurow displays her award with John Lechleiter, Eli Lilly and Company, CEO

Photo by Bob Desautels

Chris obtained her Ph.D. in Organic/Organometallic Chemistry from Princeton University and currently serves as Senior Director of External Sourcing for the Development Center of Excellence at Eli Lilly and Company. As early as 1979, Chris has been involved with the ACS in Student Government. She has continued to serve her community in many ways, but most recently as Executive Liaison for the 2013 Fall National ACS Meeting right here in Indianapolis. Destined to make a difference, she rallied the ACS local executive committee and many volunteers to a common purpose: to deliver an outstanding National Meeting experience for all those in attendance.

Possessing character which inspires, she gave everyone involved a challenge. Chris was able to convert purpose and vision to action, and produce results. Fundraising was a key strength that she provided along with advertising skills on TV and radio. She did more than communicate with people; she connected and gave people permission to do the same. We depended on her and she delivered. She prioritized, looking at the big picture then divided to conquer, handling one thing at a time. Chris was able to eliminate challenging barriers to ensure success of the event. Deadlines were met and within the expected budget. She listened, empowered others, generated trust, and negotiated collaboratively. She on-boarded a synergistic mix of experience levels, allowing a grateful, emerging talent pool to learn and develop under a truly gifted leader and leadership team. She held special events to reward volunteer efforts, but expected nothing in return.

The outcome drew rave reviews. The meeting received such positive feedback and not one complaint, which is unprecedented according to the national office. The experience in Indy 2013 will have a huge impact on future bids. Thank you Chris for your inspirational leadership! We appreciated the way you did the things you do!

You touched the lives of many and definitely changed forever the perception of the Indiana Section at the National ACS Level.



Jen Yoder, Chris Bodurow and Michael Young, center stage at the Celebrate Science Indiana event

Sibel Selcuk, Ph.D.

Senior Scientist, Heritage
Research Group
2011-2013 Chair,
American Chemical Society, Indiana Section



Scott Sheehan said it best directly to Sibel. “After seeing you in action, I don’t think there is anything that you can’t accomplish”! Going above and beyond the call of duty, Sibel ended up being thrust into the chair position by the evacuation by someone that relocated, so she has officially served as ACS chair of our local section for two years. And the timing could not have been better with all of the responsibilities as host of the national meeting. Sibel’s passion was unmatched. A great leader, she demonstrates great vision and courage. Honest, ethical, and trustworthy, she made promises that she delivered, fulfilling responsibilities masterfully. She has an uncanny ability to anticipate problems, understanding the breadth of details. Her high energy level was vital and she expected the same of others. Her ability to influence others, monitor progress, and make things happen was omnipotent during her tenure as chair. She had great ideas that she was able to organize into reality. Her persuasive abilities were demonstrated in her fundraising skills, leading the way to allow many children and adults alike to celebrate science and fun on September 8 at the Indianapolis Motor Speedway. Thanks to her insight, persistence, and dedication, we as a Section were nationally recognized with three ChemLuminary Awards listed below. Her service will undoubtedly influence more awards from the National

meeting events next year. Thank you for your leadership and service; you have our admiration.

Best New Public Relations Program of a Local Section

The Indiana Local Section created a chemistry-themed playroom at St. Vincent Medical Group facility to promote learning and awareness of science in health care. Supported in part by an Innovative Project Grant, the project was completed by volunteers in two weekends and the opening coincided with Mole Day and National Chemistry Week.

Outstanding Community Involvement in Chemists Celebrate Earth Day

With more than twenty-five booths at the County Fairgrounds, the Indiana Section highlighted Science Day, an event geared to develop interest in the sciences amongst elementary school students. A local radio station broadcasted from the event where over six-hundred people attended.

Local Section Partnership Award

Partnering with St. Vincent Health Network and the City of Indianapolis, a clinic’s waiting room was transformed into a chemistry-themed playroom. Furniture, toys, and iPads programmed with chemistry-related games were donated by local businesses.



Sibel Selcuk holding a trophy at The 15th Annual ACS ChemLuminary Awards. Bruce Mitchell, chair of the presenting committee is on her right and ACS President Bassam Shakhshiri is on her left.

Paul Lewer, Ph.D.

Self-confessed motorhead, Paul Lewer, enjoys a gift from his wife; a full-on IndyCar 2-seater at the Indianapolis Motor Speedway.

We wish to express our deep appreciation to Paul Lewer for his 3 years of service as editor of the Accelerator as well as the many other ACS volunteer activities that he participated in throughout the years. Paul did his post-doctoral research studying herbicide metabolism at the Royal Holloway University of London and has been a Research Fellow at Dow AgroSciences since 1988. He has conscientiously brought us all a newsletter that stimulates, informs, and reports on the latest Indiana local section ACS news. As editor, he has had to exert considerable effort to assemble such interesting material on a range of relevant topics, often laboring with little additional help - and without benefit of a peer review system - to fill out the newsletter. Paul has also been gracious in mentoring our new editors, Aireal Jenkins and Jules White. He will be formally recognized for his service during the next executive committee meeting that he is able to attend. By the way, Paul was also a big part of the community service projects that won two of the ChemLuminary Awards.

Thank you, Paul, for your great service as editor of our Accelerator newsletter.

Chemistry in Motion College and University Challenge Winners

Undergraduate Division

1st Place: Butler University
Faculty advisor: Stacy O'Reilly
Butler University
4600 Sunset Avenue
Indianapolis, IN 46208
soreilly@butler.edu

Award ceremony representatives: Professor Jeremy Johnson and track lap students Dom Stephens, Michael Dugan and Stephen Roberts.

2nd Place: Earlham College
Faculty advisor: Corinne Deibel
Earlham College
801 National Road W.
Richmond, IN 47374
deibeco@earlham.edu

Professors Corinne Deibel, Michael Deibel, Kalani Seu, and Lori Watson, students Emily Colton Miller, Elizabeth Harper, and track lap students Emily Pavlovic, Jiqiao Shi, and Steve Hornak.

Graduate School Division

1st Place: University of Illinois
Faculty advisor: Prashant K. Jain
University of Illinois at Urbana Champaign
Urbana, IL 61801
jain@illinois.edu

Award ceremony representatives: Professor Prashant K. Jain and track lap students Sarah L. White, Mayank Behl, Eliza Grzincic.

2nd Place: University of Cincinnati
Faculty advisor: James Mack
University of Cincinnati
Department of Chemistry
404 Crosley Tower
P.O. Box 210172
Cincinnati, OH 45221-0172
james.mack@uc.edu

Award ceremony representatives: Kelly Theisen,

Amy Norton and track lap students Jennifer Vernia, Tiffany Bell-Horwath, and Francis May.

By Robert Pribush, Butler University

National Chemistry Week

The Indiana Section of the American Chemical Society sponsored the annual National Chemistry Week (NCW) celebration at the Children's Museum of Indianapolis on Saturday November 2, 2013. This year's celebration was based on the theme ***Energy: Now and Forever!***



Photographs by Bob Wiens

Indiana ACS kicked off NCW by giving away six hundred gift bags, followed by an award ceremony honoring winners of the annual T-shirt design and high school competition!! Abigayle Guyer from Park Tudor School created the winning T-shirt design and won a pizza party for her class, an ACS trophy, and a certificate.

Monica Chavan from University High School wrote the winning high school competition paper titled "From the Classroom to Cars: How Fuel is Being Made from Used Art Supplies". She received an ACS plaque, certificate, and a five hundred dollar donation to her school science department! There was also plenty for guests to do. Guy Hanson and *Chemistry is a Blast* sponsored by Eli Lilly and Company demonstrated the fun and explosive nature of chemistry. Patricia Maldonado and Kids in Chemistry taught kids how to make Jiggle Jelly! Mad Scientist Sam Wendel thrilled kids with activities related to center of mass, magnetism, electricity, optics and air pressure and mechanics.

Several local businesses, universities, and non-profit organizations provided other interactive scientific activities for children. UIndy Biology club demonstrated the amount of energy coming from the sun. Ball State used energy from light to make glowing bracelets and a laser pointer to drive a solar-powered car. Continuing the theme of energy from light, Dow AgroSciences showed how light and wind can induce motion, and Martin University came with a wonderful display of solar cars. The Girl Scouts of America came out to demonstrate alternative hot topic energy sources like windmills. The Electrochemical Society at IU demonstrated the energy stored by nature though measuring the electric current flowing through fruits! Lancaster Labs built a circuit kit with a light bulb and demonstrated electrical current using lemons, coins, and alligator clips. AMRI Global showed the glow of chemiluminescence and how colored compounds can be separated through chromatography. IU Chemistry Graduate Representative Committee (ChemGRC) demonstrated hydrophobic magic sand, treating water, and water adsorption, and the IUPUI Forensic Science Club showed kids how to tell the difference between salt and sugar with stereomicroscopes. General Cable brought various electrical cable designs and materials, a

mini wind turbine and a solar power generation demo! The IU Society affiliate of the ACS and I-Stem hosted booths with exciting activities for the kids. All the kids (and parents) really enjoyed learning and engaging in all the booth activities! This year's celebration of chemistry and how energy applies to our lives was attended by about 3200 museum visitors! Finally, the ACS also held a canned food drive to benefit a local food bank.

The ACS would like to extend a heartfelt "Thank you!!" to the ACS volunteers, local organizations, educational institutions, and to the Children's Museum of Indianapolis who helped make this event a grand science outreach to the community.

By Viola Kimbowa-Radlovic, Eli Lilly and Company

Viola Kimbowa-Radlovic (Chair), Lauren Kacz, Greg Storer, Steve Zucker and Kaelyn Wilke (Booth coordinators), Lisa Spurlock (Publicity), Erica Posthuma-Adams and Zhaogen Chen (High School Competition), Aireal Jenkins (T-Shirt Design), Andjela Radmilovic (Community Event), Hannie Shih (Volunteer Coordinator) - 2013 ACS NCW committee

Project SEED Newsletter – Summer 2013

Project SEED published its summer newsletter in June/July of 2013. The following are a selection of articles from the newsletter, which is posted in its entirety at:

www.indyprojectseed.com/SEED2013newsletter.pdf

A MENTOR'S PERSPECTIVE - BY ERIN ZHAO

This summer I had the privilege of working with Dr. Yogesh Joglekar, a professor of physics at the IUPUI School of Science. Dr. Joglekar has had an extremely accomplished career in scientific research, receiving numerous awards including the Indiana University Trustees' Teaching Award, the prestigious National Science Foundation's CAREER Award, and the IUPUI School of Science Research Award. Dr. Joglekar has not only earned recognition for his

work in the field of theoretical physics, but also for his dedication to sharing his passion for research by mentoring future scientists. Although this is his first year participating in the Project SEED pro-gram, Dr. Joglekar has been mentoring students since he came to IUPUI in 2006. He has been working with other high school students through the Department of Physics internship program and also advises both undergraduate and graduate students in research projects. The following is an interview with Dr. Joglekar about his mentoring experience.



"Research is, in the end, identifying and solving interesting puzzles that nature continually offers us. Since neither the student nor the mentor knows the answer to the research problem, it is a great equalizer." - Dr. Yogesh Joglekar

- ***How many graduate, undergraduate, and high school students are you mentoring this summer?*** I have three doctoral students, two undergraduate students, and five high-school students this summer.
- ***You have many years of experience mentoring different types of students such as high school, undergraduate, and graduate students. What is unique about mentoring students who are in high school?*** Senior students have some prior research experience. For high-school students, typically, this is not the case. This empty slate provides opportunities, but also presents difficulties. The students are new to the world of the scientific

process, and many of them do not connect calculations with modeling and predictive ability. This is particularly true for theoretical physics research. Instead of working in a lab, operating sophisticated equipment, making measurements - the pop culture image of a scientist - my students do calculations. But the moment they realize that their calculations predict something about the real-world applications makes it worth the efforts.

- ***Mentoring a high school student takes much time and effort on the mentor's part. Why do you commit to mentoring high school students?*** Research is, in the end, identifying and solving interesting puzzles that nature continually offers us. Since neither the student nor the mentor knows the answer to the research problem, it is a great equalizer. Thus, mentoring highly motivated students in research is just participating in solving more, or different types of, puzzles. Many a time high-school students are apprehensive about theoretical research. But after they have participated in it, they are amazed by the tremendous predictive capability that it offers and realize that it is an integral part of the process of scientific discovery.

- ***What qualities in the student and professor are essential to a successful mentorship?*** The most important aspect of a successful collaboration is communication. Research is not an exam - the professor does not know the answers - and neither is it an eight-to-five job. Thus, scientific integrity, self-discipline and tenacity are required to pursue a problem when the answer is unknown and, sometimes, even the path to it is unclear. In such circumstances, clear communication between the student and the mentor makes the discussion of progress, tried-but-failed options, and brainstorming very easy.

- ***For other professors who have not mentored and are considering mentoring high school students, what advice do you have for them?*** I started mentoring in summer 2006, right after I joined IUPUI. Initially - and without much success - I gave the high-school students projects that involved code-running or data analysis from graduate or postdoctoral research. In 2010, I switched to puzzles that the student and I thought were interesting, although they were not in my primary research area. This

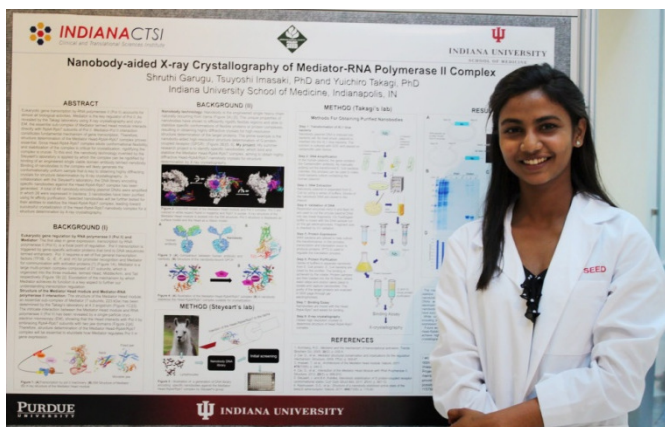
approach, where project topics are driven by student engagement, is highly fruitful. It may require moving out of the primary sphere of research, but that detour is usually worth it.

WHY PURSUE A CAREER IN SCIENCE? - BY SHRUTHI GARUGU

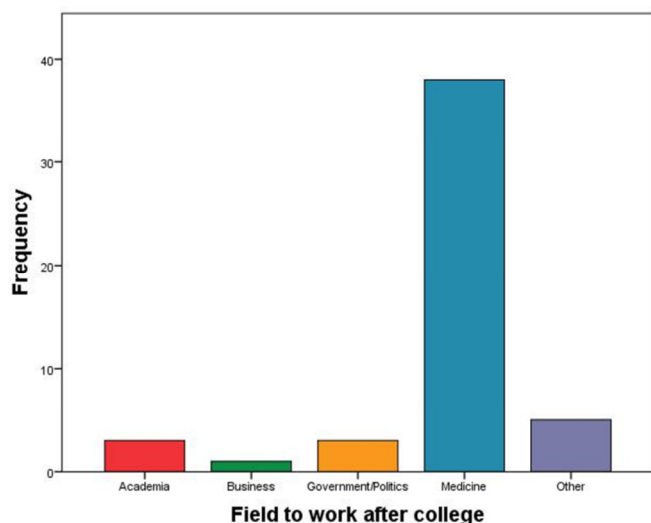
When it comes to career choices pursuing one's passion is ideal. What if that passion is for science? Considering science as a career opens up many opportunities to explore various ideas that make the world go around. There are countless numbers of fields in science, each one contributing to solving the problems in the world. There are many reasons to work in science, but the main purpose is to establish a better place for future generations.

Pursuing science is equivalent to dissecting the natural world and mimicking its components to discover the underlying mysteries. Finding answers to these challenges will contribute to the benefit of humanity, thereby reducing the chaos in the world. Dedication to research in science allows one to pose questions that have never been previously raised and to challenge oneself to gain understanding, little by little, through each step. From this understanding, the spread of certain diseases can be prevented, the profound components of the universe can be further explored, and the fight to end world hunger can be won. There are still many uncured diseases that affect millions such as malaria, cancer, polio, and AIDS. With the contributions in research from more scientists, these deadly diseases can be diminished. Make a contribution to the science world, and in doing so you could save a life.





"There are many reasons to work in science, but the main purpose is to establish a better place for future generations." - Shruthi Garugu
Project SEED students' plans for the future



*By Elmer Sanders, Southport High School,
Aireal Jenkins, Ivy Tech Community College,
Richmond campus
and Paul Lewer, Dow AgroSciences*

Chemists Crossing Borders Program: A New Opportunity for the Indiana Section Younger Chemist Committee

The Indiana Section of the ACS has been presented with a very unique opportunity for our members. Through the Chemists Crossing

Borders program of the Younger Chemist Committee (YCC), we have the opportunity to send six chemists to the EuCheMS Chemistry Congress in Istanbul, Turkey from Aug 30 - September 6, 2014.

http://www.euchems2014.org/scientific_topics.asp

This program provides registration, accommodation, and Younger Chemist Crossing Border programming. The traveler is required to pay for travel to Istanbul and food while there. The Indiana Section is looking into funding sources to pay for, or at least subsidize, the airfare to Istanbul to reduce or eliminate that burden.

The Indiana Section and the National ACS hosted seven chemists from all over Europe for the 246th National ACS meeting and we have been given the opportunity to reciprocate.

Requirements for participants:

1. Must be 35 or younger.
2. Must present research at the conference.
3. Must attend the Younger Chemists Crossing Borders Programming during the conference.
4. Arrive on Aug 30 and depart on Sept 6.
5. All ranges of chemists are able to go. Students, academics, industrial and governmental folks are all encouraged to apply. Folks who are not members of the ACS would need to become members to participate.
6. Clear open mindedness to multiculturalism.

If you or anyone else you know is interested in this opportunity please have them contact Brian Mathes directly. Educators are encouraged to forward this opportunity to their best students. **Please have all applications in to Brian by Dec 15 so we can start working on funding.**

We have an early fundraising opportunity through the Division of Chemical Education. Applicants that meet the criteria for this award are encouraged to apply to Brian before November 23. The Indiana Section will help with the opportunity as much as possible.

<http://www.divched.org/content/international-travel-award>

Applicants should indicate in their application whether they need travel support to participate. If an applicant is able to participate without financial support from ACS that will be important.

Applicants are asked to send...

1. A note expressing their interest to Brian Mathes as soon as possible.
2. A resume / CV
3. A research summary and what they intend to present in Istanbul

We hope to have the full selection process done by Dec 25. If you have any questions please don't hesitate to contact Brian at mathes@lilly.com

*By Brian Mathes and
Andrea Lindsay Frederick,
Eli Lilly and Company*

2013 Indiana Section Election Results

The Indiana local Section of the ACS is pleased to announce the results of the 2014 executive committee election, which are as follows:

Chair Elect - Matthew Gardlik
Secretary - Linda Osborn
Treasurer - Paul Ridenour
Councilor - Robert Pribush
Alternate Councilor - Robert Sammelson
Member at Large - Patricia Maldonado, Kit Peregrine, Ling Shi (Tom) Xiao

By Amy C. DeBaillie, Eli Lilly and Company

Request for 2014 speakers

The Indiana Section of the ACS is looking for presenters for the 2014 program. The Section believes that within its own borders many great researchers and presenters exist and wish to give those people a forum to present their work.

We are looking for presenters to give a forty- to sixty-minute talk at one of our monthly meetings, including a Q & A period. The Section does all the advertising to the membership and external sources as well as finding an appropriate presentation location and setting up the logistics. All the presenter needs to do is prepare the talk and show up! Additionally, the presenter is taken out to dinner as a token of the Section's appreciation. The Section has four slots open for speakers at this time and would love to fill them with Indiana-grown talent.

If you are interested in presenting in 2014, please contact Brian Mathes at mathes@lilly.com to schedule a month and date at your convenience. Contacting Brian by Dec 15 helps the section with some of its early calendar year programming.

Looking forward to your presentation!

By Brian Mathes, Eli Lilly and Company

Ball State University Student Reviews of 2013 Spring National ACS Meeting in New Orleans

Alec Ribblett: Traveling to and attending the National ACS Meeting was a great experience. Not only did I get to meet new people from all over the country, all of whom were interested in chemistry, but I also had the opportunity to discuss other students' research with my peers. I found students whose research was similar to my own and others that I was just genuinely interested in and asked the students about it. I found out about their accomplishments, struggles, and how they overcame those struggles. This was an opportunity that I do not think I could get anywhere else on such a large scale.

While it was great to meet new people and discuss their research with them, I also was able to represent Ball State's Chapter of the Student

Affiliates of the American Chemical Society. When I presented my poster I was able to share with fellow student-members methods of community outreach, fundraising, and managing our respective organizations. This was a great experience that allowed me to have a glimpse of what other undergraduates are doing from all around the country.

Shamus Driver: My trip to the National ACS Meeting in New Orleans provided many important opportunities to showcase my individual research as well as expand my knowledge base for my future career. I attended the undergraduate poster session where I spoke with many research professors about my work. I also attended the computational poster session where I was able to network with researchers doing similar research. Since I am now pursuing a PhD in environmental science with a concentration in chemistry, I was able to attend many helpful seminars and talks about my current research to better acclimate myself to the new topics. The networking opportunities at the meeting greatly expanded my personal contacts in the field. Networking is an important facet of research that is not taught in any lab or lecture class. This trip to National ACS in New Orleans greatly enhanced my ability to become a great researcher and productive citizen in the field of chemistry.

By Brian Mathes, Eli Lilly and Company

Ball State University Student Reviews of 2013 Fall National ACS Meeting in Indianapolis

The 246th National Meeting in Indianapolis, IN, was an interesting and exciting trip. From the poster sessions to the undergraduate programming there was never a lack of excitement. The poster session was a valuable experience which provided ample criticism and support. From industry and other academic members the questions and suggestions on how to further develop my research were immeasurable. The overall experience allowed for the development

of my presentation skills, networking and a greater understanding of the chemistry going on around the world. The poster session was one small part of the meeting, the talks and undergraduate programming were an abyss of knowledge and helpful tips.

The undergraduate programming was the most helpful aspect of the whole meeting. The graduate school reality check with a panel of admission faculty from around the country, answered all of our most important questions and concerns about graduate school. Also the graduate school fair allowed for a personal insight into possible schools, and what they are really like. The overall experience of the undergraduate programming really helped focus and abate the stress. The Cope Scholar talks and the talks from other students opened my eyes to the vastness and the interdisciplinary research that is taking place at Universities around the world. Overall, I learned that we (students) are the catalyst that will change the future of industry and research.

Christopher Fullenkamp

This was my first National ACS Meeting, and I have to admit, going into it, I was a little worried that I was getting in over my head - especially since I would be presenting my research poster at a convention with innumerable other chemists that could very well know more about the topic than I did. As it happened, this was only true to an extent. Yes, there were many analytical and biochemists that were familiar with "natural product isolation chemistry", but rather than feeling ashamed and inadequate, it turned out to be truly insightful learning experience. I realized how much of a community the world of chemistry really is, and the other chemists I met that were familiar with my topic were not only interested, but offered their own insight based on their own experiences from similar work. In the end it turned out to be an incredible opportunity to be exposed to such a plethora of information from so many facets of the chemistry community. Such an open sharing of knowledge was inspirational.

Geoff Hutchinson

I attended the National ACS Meeting in Indianapolis to present the research I had been doing since spring 2013 in an undergraduate session. It was a great experience. I got to see so many different projects from a huge array of disciplines across the world. It was really interesting to be exposed to so much science I had never seen before. I may not have learned a whole lot at a deep level, there was just too much to absorb all at once, but I definitely walked away with more knowledge than I came in with. Every day I saw a new structure or a new scheme or listened to someone explain a process I didn't know before. I was a great growing experience.

I also had a great time attending other poster sessions and presenting my own research poster. It was a great chance to teach people about my research and intimately learn about research other people are working on. A lot of people visited my poster and expressed interest in the research I have been doing. I think they kept me going until a little dust was coming out with every breath: I had dried out so much from talking. I returned the favor as best I could during my opportunity to hear colleagues present and I think I managed to figure out what a few people were on about. All in all it was worth the massive exhaustion and missing two days of school work before our first PChem exam. Given the chance, I definitely think I would go again.

Matt Bunner

The 246th National ACS Meeting in Indianapolis was a great experience for me as a student doing my first stint of research at Ball State University. My research partner, Jinyu Liu, and I travelled down not only to discover what other research groups were working on, but also to present our own poster on our electrochemical studies as part of Dr. Daesung Chong's Ball State research group.

Our two hour poster session on the Monday of the conference was very well attended. Several people approached us and were interested in our research on the electrochemical properties of substituted benzylmalononitrile derivatives, and most were students who had not been exposed to electrochemistry extensively before

our talk. I feel that people left our poster with new insight into electroanalytical methods and much interest was shown for the synthetic possibilities of bulk-controlled potential electrolysis. Also, in explaining my work to interested audience members, I became more comfortable with the details of the techniques carried out during experimentation and ways to better relate them to those listening.

Later that night, we had the chance to attend the Sci-Mix poster session. Only a handful of posters there presented work that used electrochemical methods, but the few that did showed a good general knowledge of electrochemistry. I would have liked to see a few more posters geared specifically towards electrochemistry as an analytical or synthetic tool, but enough interesting talks were given to definitely make up for it. Overall, a very pleasant experience was had by the 'Chong group' and we are looking forward to another great conference next time!

Slade Kepler

The recent American Chemical Society Convention in Indianapolis was a wonderful and enriching experience to add to my collegiate career. I am very thankful for all the support that the local ACS Indiana Section has provided to me to be able to have this opportunity and I thought I would share a little bit of my experience with you. I was able to present my research in the undergraduate poster session on Monday afternoon. It was an excellent experience and I was actually able to talk to several different people about the research that I am able to be a part of at Ball State. I was also able to meet and talk to a few people who used to do a component of the same research that I am apart of while they were at Ball State and it was fun to be able to share our experiences. I was able to share with them how the research was currently progressing and to hear their experience with it and any advice they had to offer. It was neat to be able to show them how far the project has come since they were a part of it. The entire poster session was an overall positive experience for me and also gave me some further practice on presenting, which will be a beneficial skill throughout my lifetime.

With the conclusion of my poster presentation, I was then able to attend some other events that the American Chemical Society was putting on. I was able to attend a “Speed Networking” session with many different industry and academia representatives and I even received my very own business cards by pre-registering for the event! This event was very useful for me because upon my graduation this May, I would like to pursue a chemistry-related job in industry, so it was very helpful to make some connections! I was able to learn more about companies such as Dow AgroSciences and Xerox and receive an inside look at how the companies are structured. After this event, the Ball State faculty put on an alumni meet and greet and I was able to meet some really cool alumni and listen to stories of their lives now and the steps it took to reach where they are. Finally, I was able to attend the “Sci-Mix” poster session and learn about other research going on at universities and support a Ball State student that was presenting. Overall, this experience was very beneficial to me and again I just want to thank the ACS Indiana Section for helping to make this experience possible for me!

Rachael Wisler

While at the Indianapolis ACS Meeting I attended mostly poster sessions but I also attended the presentations on how to get into graduate school and what to expect after you get into graduate school. I also attended a computational chemistry lecture that was very interesting and informative. The poster sessions were very interesting and allowed me to become familiar with other students’ research. The poster that I presented gave me confidence and experience that will serve me well as my chemistry career progresses. At first I was nervous about presenting my poster since I had never been to a poster session before and didn’t know what to expect. But after talking to a few people I began to feel more at ease. This allowed me to enjoy discussing my research with the people that were at the session. Overall I really enjoyed attending the ACS meeting. It allowed me to experience what a meeting of the chemistry community is like and how presenting at the meeting of the ACS works.

Nick Connors

At the 2013 National ACS meeting I had the opportunity to present my research. I presented a poster in the organic division on September 8, 2013. I enjoyed being able to share and explain the research I have done to other chemists and see that some people were interested in using the chemistry. I had the opportunity to talk to undergraduates, graduates and professors about my research project. I was able to get some ideas for reactions such as people’s interest such as trying the reaction in toluene instead of in trifluorotoluene and trying more sterically-hindered alcohols.

In addition to presenting my poster, I did some other activities. I went to the graduate school fair. I learned about some graduate programs that I had not considered before. I am now applying to North Carolina State from talking to organic professor Dr. Joshua Pierce who was at the fair from NC State and his research sounded interesting and the overall program. I also went to several talks. One of the talks was in the polymer division about D-A organic polymer solar cell research. This talk was given by Dr. Geoffrey Hutchinson from University of Pittsburgh, whom I met earlier this summer. I also went to a talk given by Dr. Ramesh Jatsi from Boston College about carbon nanotubes. I also had the opportunity to talk with Dr. Tara Meyer from the University of Pittsburgh who I met earlier this summer, and Dr. Cam Tyson from Georgia Tech who was a co-coordinator for the REU program I participated in during the summer.

Overall, from this experience I got some ideas and feedback about my research, met professors from several universities, explored potential graduate schools, and got to learn about research other people are doing at other universities.

Anna Salvati

The ACS National Meeting was a great experience for me as I had never been to a conference before. As a result I learned a lot about the way conferences operate and what to expect when you go to one. I also got first-hand experience at presenting my research to scientists in other fields and from places other than Ball State, and got to hear about what

other students in my field are doing with their research. I also went to presentations by more distinguished researchers, and learned both about what they had been studying, and how they communicated with others in their field.

James Adair

By Brian Mathes, Eli Lilly and Company

National Meeting Overview: History and A Successful Outcome

Over the course of the past two years, the Indiana ACS Section designed, developed and delivered one of the best-hosted ACS Meetings in recent history. Based on the feedback from the leadership at ACS National Headquarters, the nearly 11,000 attendees at the meeting had a wonderful time, and many were lobbying for the return of the meeting to Indianapolis even before they left. The Meeting received over a BILLION views (see inset panel on p.15) and a summary of the meeting events may be found at:

<http://www.acs.org/content/acs/en/meetings/fall-2013/news-media-coverage.html>.

Credit for the success of this meeting goes to a Core Team of volunteer leaders, the hundreds of Indiana ACS Section volunteers who gave their time and efforts, and very importantly, our sponsors who provided the funding to ensure that this National Meeting was going to leave a lasting positive impression with the American Chemical Society.

This all started in November 2011, when the Indiana ACS Executive Committee sanctioned the formation of a National Meeting exploratory effort. Over the course of the first four to five months, two strategic planning sessions were organized, aimed at 1) assembling a broad leadership representation for the ACS Section, and 2) thinking comprehensively about all the strategic elements to ensure a successful outcome to the very first ACS meeting that Indianapolis had hosted in modern times. A

strategic direction was established with several critical elements being approved:

1. An “opening day” public outreach event at the Indianapolis Motor Speedway (IMS), probably the best known attraction in Indianapolis and recognized nationally and internationally.
2. An aggressive hospitality campaign, in partnership with the VisitIndy (convention/visitors bureau) and including significant presence at the 2012 and 2013 National Meetings preceding the Indianapolis meeting
3. Proactive outreach to influence the plenary/technical program for the National Meeting, including strong representation of local scientists/executives at all key sessions for the meeting.
4. Proactive outreach to colleges, universities, and exhibitors to plan ahead to prepare, attend, and participate in the National Meeting.
5. Fundraising to ensure that the public outreach event would be free to the public and all expenses associated with hosting a successful National Meeting would be covered through special funding (rather than through the Indiana Section budget).

Connections were also established with the National ACS executive branch, local industrial leaders, and the Indianapolis Motor Speedway as early as eighteen months before the meeting, in order to begin the design, planning and implementation activities.

Over the course of Jan 2012 - Sept 2013, the leadership team “divided and conquered” to accomplish all the elements of the strategic plan. Leaders were put in place for every key element of meeting delivery. In the fall of 2012, the local section formed a partnership with Celebrate Science Indiana (a Science Education Foundation of Indiana organization) to bring the elements of Science Outreach and Education to the IMS event. Teams were enlarged through the utilization of internet volunteer recruitment tools, and the tactical preparations for the Public Outreach event took

place in the six months leading up to it. A major fundraising campaign produced \$135,000 in funding to support all host Section activities. Perhaps most gratifying was the engagement across the entire central Indiana chemistry community, not only the corporate financial contributions, but the real interest in making the meeting a success. At the end of the day, the meeting ended up being financially positive, the attendance surpassed the “minimum” expectations, and the positive feedback from the National ACS officers, Meetings and Expositions, and many attendees far exceeded expectations. Thank you to everyone who

contributed and participated in the 2013 Fall National ACS Meeting!!!

By Chris Bodurow, Eli Lilly and Company, Executive Liaison, 2013 National Meeting

Raffle and Donation to ACS Scholars

During our public outreach event “Celebrate Science Indiana” at the Indianapolis Motor Speedway on September 8, our Local Section held a raffle to raise money for the ACS Scholars Program. In addition to twenty-six lucky winners receiving great prizes, our fourteen wonderful volunteers were able to raise \$2,690 for this distinguished cause. Priority for the scholarship will go to an ACS Scholar attending a university in or a permanent resident of Indiana.

News Media Coverage Summary ACS 246th National Meeting Indianapolis, Ind. September 8-12, 2013

Coverage for the 246th ACS National Meeting & Exposition in Indianapolis totaled nearly 1.3 billion views, resulting from ACS Office of Public Affairs’ (OPA) press releases, press conferences and other news media resources. News stories appeared in newspapers, magazines, online news sites, blogs and newsletters, and on cable and commercial TV networks, local TV stations and radio stations. In addition, researchers featured in the OPA national meeting releases often had high praise for the process:

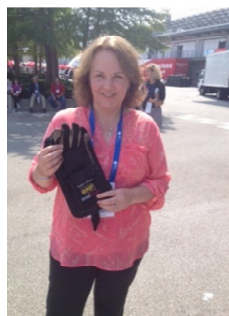
“The ACS news media publicity has taken impressive steps to bring the beauty, excitement and value of scientific research and education to the public as well as to other scientists. My talk and ensuing ACS press conference clearly resonated with many including other media as evident with interviews on radio ABC Australia Pacific Beat and on National Public Radio Science Friday with Ira Flatow. Collectively these all profoundly impacted those in need of new ideas to address their health issues as I have received numerous e-mails from many patients and many other requests for information...”

— Paul A. Wender, Ph.D., Stanford University,



provided him.

Brian Mathes, an alternate councilor for the Indiana Section, and Jose M. Cintron of Lilly, a former ACS Scholar, draw names for the raffle.



Right: Toshia Zessin shows off her i-PAD. Toshia also won a 100th anniversary CRC Handbook of Chemistry and Physics signed by all of the drivers at the event.

Left: Beth Lorshbach shows off her Gabby Chaves racing gloves.

Thanks to the Hundreds of Volunteers Who Helped at the National Meeting!

Before the National Meeting becomes a distant memory, we want to thank the hundreds of central Indiana chemists for volunteering their time and talents to help make the meeting a great experience for attendees visiting our local Section hospitality booth at the Convention Center and attending the Celebrate Science event! Your openness to staff an exposition booth with VisitIndy at two previous ACS meetings and to attend training sessions before our Indy meeting set the stage for representing Indianapolis in a really positive manner. During your shifts you...answered many questions to provide assistance throughout the meeting; checked the program listings for lots of guests; passed out lots of chocolate cars, flags & programs; provided helpful suggestions for downtown activities and transportation; conducted setup and tear-down; and of course executed the great track activities...all of which led to the wonderful feedback we have received!

By Dawn Brooks, Eli Lilly and Company

Item	Winner
2 suite tickets-2014 Indianapolis 500	Jeff Wagner
Ergonomic Steelcase Amia Chair	Maureen Vasquiz
Indy Racing Experience	Andrea Kriech
Dinner for 4 with wine pairing	Mark Zettler
i-PAD Generation 1	Kim Sorg-Graves
i-PAD Generation 1	Toshia Zessin
CRC Handbook of Chemistry and Physics	Toshia Zessin
"Bagels for a Year"	Warreen Hull
Ryan Lewis OMP racing gloves	Lisa Clay
Stephan's racing gloves & helmet visor	Kerrm Yau
Gabby Chaves racing gloves	Beth Lorshbach
Colt's Item	Stu Stabley
IMS Brick Plaque	Bella Schumacher
2 tickets-ISO	Lynn Hartshorn
Danica Patrick signed collectables	Julie Rust
Lunch or Dinner for 8 at McAlister's Deli	Jasmine Kalia
ASUS Memo Pad	Brad Bowden
MINI Bell helmet	Tony Aitchison
Dinner for 4 Chick-Fil-A	Kip Harris
Indy 500 1/18 race car	Mick Hurrey
Derek Daly signed "Race to Win"	Sam Awad
Pippa Mann racing helmet visor	Cheryl Frech
Olive Garden Gift Certificate	Jude Vysma
Autographed official Dan Clark hat	Laura Norflea
Oriol Servio signed hero card and hat	Tony Aitchison
Dinner for 4 Chick-Fil-A	Sharon O'Neal



Left: Amy DeBaillie and Viola Sanyu Kimbowa pose while selling raffle tickets to the crowd. **Middle:** Laura Norflea poses with her newly won autographed Dan Clark hat. **Top Right:** Bill Gorman and Liz Wernz pose while selling raffle tickets to the crowd.

By Linda V. Osborn, Heritage Research Group

Celebrate Science Indiana (CSI) Event

The National Meeting Leadership Team felt very strongly that we wanted to provide a memorable experience not only for ACS members but also for the general public as well. To that end, we engaged Celebrate Science Indiana, a division of the Science Education Foundation of Indiana (SEFI), whose aim is to highlight the importance and value of STEM education, research, and careers to Indiana and all Hoosiers. CSI is known for their well-established, well-attended and very successful community outreach event which draws hundreds of exhibitors engaging thousands of participants in exciting, educational science

demonstrations and experiments. They typically hold their event at the Indiana State Fairgrounds in October but agreed to partner with us at the Speedway on September 8. By all accounts, the event was a smashing success! The CSI booths were packed all day, participants were clearly enjoying themselves (which they confirmed anecdotally and in a survey) and attendance more than doubled from ~3000 participants in 2012 to over 7000 participants this year. We wish to thank the CSI team for their hard work, dedication and flexibility to make our joint event more awesome than we could have ever imagined!

We were very fortunate to have Marinda Wu, ACS President, join us for much of the Speedway event. Marinda arrived Sunday morning and was one of the first to be whisked around the Indy 500 track in an event car. She then visited the CSI booths which were already bustling with activity and excited participants, including several students from the KIPP Charter School in Indianapolis. Marinda joined them to experience Chemistry is a Blast with Guy Hansen of Eli Lilly, learned about (but did not touch!) cockroaches from Ronda Hamm of Dow AgroSciences, and spent time with her ACS Committee on Community Activities colleagues who had joined in the CSI event. Marinda welcomed the crowd at the opening ceremony and recognized the Chemistry in Motion Award Winners, and she and her husband Norm even took a spin in a Miles Ahead Mini Cooper before heading back to the convention center. She joined us again in the afternoon along with several Members of the ACS Board to recognize our event sponsors as well as U.S. National Chemistry Olympiad Gold Medalist David Liang. We would like to thank Marinda for her enthusiastic participation in our event and support of the Indiana Local Section!

By Jeannie Phillips, Dow AgroSciences

Overview of the Indianapolis Motor Speedway Event

What a day for celebrating science in Indiana! With great weather and well over one hundred seventy spirited volunteers, September 8 was

the *Greatest Spectacle in Science* at the Indianapolis Motor Speedway. The proof is out: our Indiana Local Section is awesome! Thanks to all of our dedicated volunteers; we only have names for the one hundred ten listed below, but realize there are at least sixty others that include Ball State Students and Committee of Community Activities volunteers.

Highlights of the day included the fun, free, day-long *Celebrate Science Indiana* events as well as wild and exciting Miles Ahead Mini Cooper rides around part of the Formula 1 track and Indy 500 track laps. Each one, although uniquely different, was quite a ride! Science-themed face-painting was a big hit with the youngsters as were the racing simulators. Special guests included Sara Fisher who did a great job answering questions from our host Michael Young. David Liang, gold medal winner at the International Chemistry Olympiad, Marinda Wu (ACS President) and many board of trustee members, and Deputy Mayor Olgen Williams were among invited celebrities of the day. Special thanks to Rachel Harden for her amazing talent singing the National Anthem and Carolyn Kurek, who donated her time and talents providing the science-themed floral arrangements in the pagoda suite! The Coalition Barbershop Quartet delightfully entertained those dining in the food court.

Of course we couldn't have done this without our spectacular sponsors. **Platinum level:** Dow Chemical/Dow AgroSciences, Eli Lilly and Company, Ice Miller/Lucas Oil, Monument Chemical. **Silver level:** Roche Diagnostics. **Iron level:** IUPUI School of Chemistry and Chemical Biology, Southern Indiana Local Section of the ACS, Procter and Gamble, AkzoNobel, Business Solutions LLC.-Authorized Xerox Agency, and Mead WestVaco. Our raffle donors, too, helped us to support the ACS Scholars Program.

More vivid than anything said or written, the expressions on the faces of the children portrayed the joy of the day. They were truly

intrigued, inspired and immersed in science.
Enjoy the photos below taken by Lou Coury and
Steve Swanson.

*By Sibel Selcuk and Linda V. Osborn,
Heritage Research Group*

Thank You Volunteers!



*Chris Bodurow, the Executive Liaison, 2013 Fall
National ACS Meeting, ACS, Indiana Section
gathers around a Mini-Cooper with her son,
George and the family of Stephan Gregoire, Miles
Ahead co-founder and former Indy 500 driver.*

Allison Fields	Gary Osborn	Gary Klingler
Aireal Jenkins	Gozel Berkeliyeva	Michael Martin
Alexandra Schleg	Han Shih	Michael P Fogarty
Alice Smith	Hong Hu	Mike Coghlan
Amy DeBaillie	Jason Ribblett	Misaah Hahiman
Andjela Radmilovic	Jeannie Phillips	Nick Osborn
Andrea Geiser	Jeff Wagner	Nikki Woodall
Andrea Lindsay Frederick	Jennifer Peregrine	Patricia Maldonado
Ann Hunt	Jessica Howard	Paul Ridenour
Asia Woodson	Jim Kissel	Perry Eyster
August Wilke	Joe Burnell	Peter Wallage
Bill Crawford	Joey Ni	Rajnish
Bill Gorman	John Carpenter	Riley Backs
Bob Meister	John Dempsey	Rob Sammelson
Bob Wiens	Jonathan Riley	Robert G. Meister
Breanna Brennehan	Josh Taylor	Roseanne Bonjouklian
Brian Mathes	Kathy Stickney	Sadie Sial
Brittani Burton	Kit Peregrine	Samaharv
Bruce R. Cooper	Kitty O'Doherty	Sandi Kaser
Carol Cronkhite	Larry Patterson	Sarah Shukla
Caroline Sperry	Lauren Kacz	Sarah Vo
Catherine Henney	Lili Guo	Scott Sheehan
Chris Brown	Linda M Osborne	Sibel Selcuk
Chris Evinger	Linda Osborn	Silvana Dormi
Christian Clarke	Lindsey McBride	Steve Swanson
Christina Bodurow	Liz Wernz	Susan Gackenhaimer
Clara Deal	Lou Coury	Tamiko Porter
Crystal Reed	Lou Jungheim	Thomas Gunter
Damon Carl	Louis Fadel	Tom Xiao
Dave Bender	LuAnne McNulty	Jen Yoder
Dave Jackson	Luoet	Val Gartner
David Mitchell	Marcella Clayton	Viola Kimbowa
Derek Stouder	Mark Crooks	Wen Zhu
Eric Cale	Maria Alvim-Gaston	Xiao Zhou
Erik Stevens	Matt Gardlick	Yanran Wang
Erin Dotlich	Matt Kriech	Yunzhi Liu
Fanglin Lu	Meredith Taylor	



From left to right: Tom Xiao, Amy DeBaillie, Chris Bodurow, Mike Coghlan, Matt Gardlik, LuAnne McNulty, Rob Sammelson, Kathy Stickney, Brian Mathes, Jeannie Phillips, Sibel Selcuk, Tony Trullinger, Erin Dotlich, and Dawn Brooks. What a team!



Top left: Jeannie Phillips leads Marinda Wu and company around the track with a smile! **Top center:** All eyes are glued on the balloon demonstrating that chemistry truly is a blast. **Top right:** Indy 500 driver Martin Plowman poses with Marinda Wu. **Bottom left:** Sibel Selcuk, ACS Indiana local section Chair, speaks on the stage as Bill Carroll looks on. **Bottom center:** Michael Young and Sarah Fisher engaged in Q&A. **Bottom right:** Rachel Harden sings our National Anthem.

Marketing the 2013 National Meeting

To promote the Celebrate Science Indiana event and the National Meeting, our team strategically planned and executed a “most bang for the buck” marketing and communications campaign. A dual flag logo was created early on to establish a proud brand. Committee leads were provided shirts bearing the logo to promote the event and meeting. Social media sites were created (LinkedIn, Facebook) and linked to our very own hosted website. Community calendars throughout the greater Indianapolis area were marked with our event. A “Where is Professor Millennium Mole in the City?” campaign was initiated on the National site for visitors to vote where to send the famous mole in Indianapolis. A grass roots campaign included the creation and distribution of flyers and brochures. We reached out to various youth organizations and made some new STEM connections in the process! Internal company communications were utilized as many scientific-based companies proved very supportive of the effort. Print ads were run in local papers and radio announcements were made on NPR. We even created and aired a television commercial! Free media coverage as the result of a media advisory and press release was most exciting. Features in the Indy Star, and on “Daybreak”, “Indy Style”, and news coverage on Fox 59 and WISH TV 8 helped rally the city to come “Celebrate Science”. We were faced with some pretty stiff competition as the Celebrate Science event coincided with the Colts opening home game. The event outcome? Over 7000 people attended!

By Erin Dotlich, Elanco Animal Health

DECEMBER 2013

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Happy Holidays to all Indiana Local Section Members and their families!
May 2014 be as great as 2013!