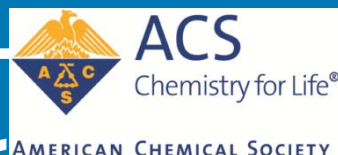


The Accelerator



INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY

MARCH 2016

Chair's Corner BY LINDA OSBORN

Lights, camera, action! We'll continue to put chemistry in the spot-light showing the importance of chemistry in our community and beyond. We'll document what we're doing with cameras and



Linda Osborn

evaluate our progress. Action will make the difference. Our amazing team has already pulled off an awesome "Think Like a Molecule" poster session at IUPUI on February 25, a booth at "Passport to Hi-Tech" at

Conner Prairie on March 5 and several Kids and Chemistry activities at the Children's Museum of Indianapolis.

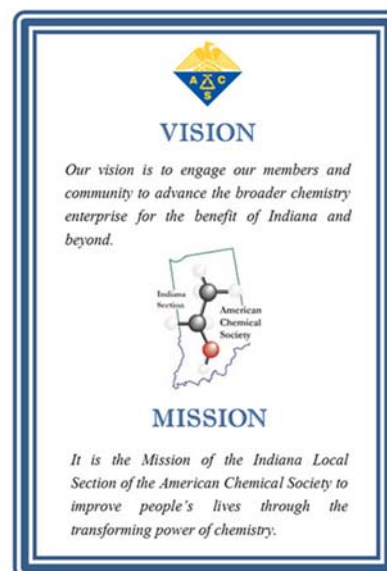
Some additional events planned for 2016 include the US National Chemistry Olympiad exam for high school students, Chemistry of Cheese, Science Day at Ball State, Awards Night at University of Indianapolis, Leadership by Influence, our popular baseball night at Victory Field, Project SEED, Hidden Mysteries of the IMA, a 2023 National Meeting Blue Sky Event, Chemistry of Beer, Celebrate Science Indiana, National Chemistry Week's Science Day at the Children's Museum of Indianapolis, Impress for Success, and our end of year volunteer celebration. I urge you to get involved in any of these activities that resonate with you. Dates are shown in the Calendar at the end of this newsletter.

Regionally, the Cincinnati section is hosting the CERM May 18 - 21, only a 2-hour drive. Please attend if you can! Nationally, our four ACS

councilors will report on meetings held March 13-17, 2016 in San Diego and August 21-25, 2016 in Philadelphia, Pennsylvania.

Personally, I'd like to thank all of our corporate sponsors. So far this year, this includes Monument Chemical and Heritage Research Group.

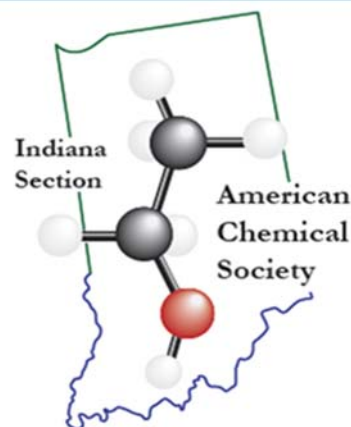
Special kudos to all of the leaders before me, especially Dr. Sibel Selcuk, for getting me more involved in our Local Section. We have phenomenal members, so very giving of their time and talents. I am grateful for this opportunity to serve the section in 2016 and would like to introduce you to the 2016 executive committee. Together, we can accomplish much. Enjoy the production!



Executive Committee	
Chair	<i>Linda Osborn</i>
Chair-Elect	<i>Tom Xiao</i>
Secretary	<i>Tamiko Porter</i>
Councilors	<i>Robert Pribush</i>
	<i>Brian Mathes</i>
	<i>Christina Bodurow</i>
	<i>Beth Lorschach</i>
Alternate Councilors	<i>Amy DeBaillie</i>
	<i>Robert Sammelson</i>
	<i>Sibel Selcuk</i>
Past Chair	<i>Matt Gardlik</i>
Treasurer	<i>Paul Ridenour</i>
Member-at-Large	<i>Paul Morgan</i>
	<i>Greg Smith</i>
	<i>Maria Alvim-Gaston</i>
Committee Chairs	
Awards	<i>Katherine Stickney</i>
Celebrate Science	<i>Julie Holland</i>
Education	<i>Robert Pribush</i>
Events	<i>Rob Sammelson, Amy DeBaillie, Sibel Selcuk</i>
Grants	<i>Ann Cutler</i>
Kids in Chemistry	<i>Brian Mathes</i>
K12 Outreach	<i>Erica Posthuma Adams</i>
Newsletter Editor	<i>Julie Holland</i>
Newsletter Design	<i>Andrea Moberly, Julie Holland</i>
Project Seed	<i>Elmer Sanders</i>
Project Seed Co-Chair	<i>Josh Taylor</i>
Science Day	<i>Ryan Jeske</i>
Social Media	<i>Erica Posthuma Adams</i>
Webmaster	<i>Matt Gardlik</i>
Women Chemists	<i>Amy DeBaillie</i>
Nat'l Chemistry Week	<i>Maria Alvim-Gaston, Belgin Canturk</i>
Trustees	<i>David Mitchell, Dawn Brooks, Ann Hunt</i>
2014 Chair	<i>Erin Dotlich</i>

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Open Volunteer Position: YCC Chair

What is the YCC and what do they do? Members of the Younger Chemist Committee “advocate for and provide resources to early-career chemists and professionals in the chemical sciences and related fields. The YCC addresses specific issues facing younger chemists within the ACS and serves as a voice to the Society on behalf of younger chemists.”

For more information about this committee, please go to: <http://ycc.sites.acs.org/>

Would you like an opportunity to get involved with the Local Section ACS, meet new people and network in the field of chemistry, and provide mentoring to younger chemists in the community? If you are under 35 and this opportunity sounds interesting, please contact the section Chair, Linda Osborn, at:

Linda.Osborn@hrglab.com

Members Celebrate at 9 Irish Brothers

By Linda V. Osborn

In December, the Local Section celebrated our end of year volunteer appreciation event at 9



L to R: Katherine Stickney, Erin Dotlich, Julie Holland, Tamiko Porter

Irish Brothers, a pub in downtown Indy. ChemLuminary awards decorated the tables and a ‘Thank You’ sign using elements

of the periodic table adorned the wall. Twenty-one ACS members along with a few invited guests enjoyed the cozy atmosphere, the food, and of course, the spirits. Raffle prizes included three \$25 gift certificates and a Premier Design necklace.

Several members were recognized for exceptional service. These included two long time councilors who have recently resigned their positions. ACS Fellow, Dawn Brooks, received a periodic table blanket with her name embroidered as a token of our appreciation for her years of amazing service to our Local Section. Since David Mitchell, ACS Fellow, was unable to attend, his similar blanket was delivered along with our appreciation by Dawn.



Bob Pribush, Greg Smith, Brian Mathes, Erica Posthuma Adams, Tom Xiao, Joe Mick

Erika Posthuma Adams, a chemistry teacher at University High School, received the first ever Gladysmae Good - Chemistry Teacher of the Year award. A ChemLuminary Trophy was given to Erin Dotlich for the YCC Turkey event. Although Viola Sanyu Kimbowa and Robert Yost were unable to attend, they were given the ChemLuminary trophies for our National Chemistry Week’s Chemistry Day and Celebrate Science Indiana, respectively.

New members of the executive committee were able to mingle with old members in a relaxing, fun atmosphere. Student members, retired

members and many in between were able to network together.



Who: Ball State Student Chapter of the American Chemical Society (SAACS)

What: 12th annual **Science Day Celebration**

When: **Saturday April 9th 10am-3pm**

Where: Cooper Physical Science Building, 1st Floor
BSU in Muncie, Indiana

Why: 40+ Scientific Demonstrations, FREE popcorn and cotton candy, two FREE planetarium shows (12:00 and 2:30), and a surplus of fun (and learning!)

Leadership by Influence Workshop

By Amy DeBaillie and Paul Morgan

Students and professionals, this workshop is for you! The Local Section Executive Committee will be hosting a 2 hour workshop focused on **LEADERSHIP BY INFLUENCE** for you on June 9th, 2016 at Heritage Interactive (North) from 6-8pm with dinner available at 5:30pm. During the workshop, attendees will learn practical strategies they can use to lead with influence and affect real change in their personal and professional lives.

The course facilitator will be Dr. Jeannie Phillips. She is a technical professional and business coach with 18 years of experience in a corporate environment leading



Leadership by Influence
 Speaker: **Dr. Jeannie Phillips**
 Date: **June 9th** Time: **5:30pm – 8pm**
 Heritage Interactive Services, LLC
 3719 96th St, Indianapolis, IN 46268

- First 60 to register
- Dinner provided

projects, people and the development and execution of strategy. Jeannie has developed programs and conducted workshops and training in leadership development, mature workforce engagement, learning culture and continuous improvement. She is a Six Sigma Master Black Belt, has chaired American Chemical Society committees and conferences, is a member of the Association for Talent Development and is pursuing her Associate Coach Certificate with the International Coach Federation.

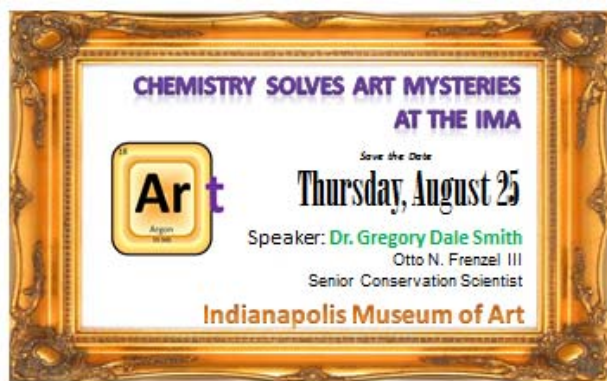
ACS member and non-members are welcome to attend. The workshop is free, but registration is strongly recommended since we have a limit of 60 spots. Register by June 6th via Eventbrite:

<https://www.eventbrite.com/e/leadership-by-influence-registration-22937268989>

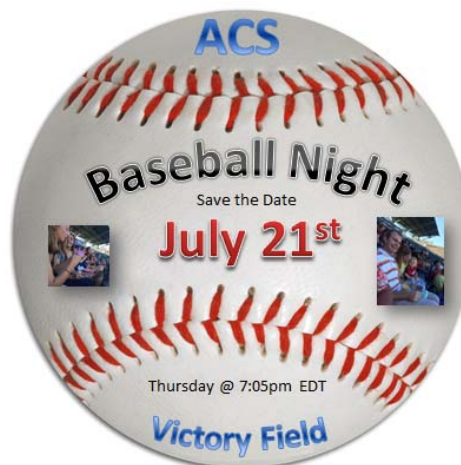
Questions: Email Paul Morgan:

pmorgan@butler.edu or Amy DeBaillie
debaillie_amy_c@lilly.com

Chemistry at the IMA



Once again, the Local Section ACS will co-host an event with the Indianapolis Museum of Art on Thursday, August 25th. More information will be given regarding registration in the next edition of the Accelerator. Stay tuned!



Local Section Hosts Poster Session

Amy C. DeBaillie and Tamiko Porter

The Indiana Local Section of the American Chemical Society hosted the "Think Like a Molecule Poster Session" on February 25, 2016 at the IUPUI campus on Thursday, February 25, 2016. The poster session was a successful event with over fifty abstract submissions with attendees from local high schools, colleges and universities, and industry.

The local section was honored to have Dr. Frédérique Deiss, an assistant professor at IUPUI, serve as the keynote speaker. She started off the night with a dynamic keynote address that set the tone for a great event by sharing her research on developing bioanalytical sensing systems using electrochemical techniques for preventive care applications. The poster session featured science from analytical chemistry, organic chemistry, inorganic chemistry, physical chemistry, polymer chemistry, and biochemistry. Presenters competed for the ACS Chair's Award, the IUPUI Dean's Award, or the Kurek Student Award.

It was an evening of in-depth technical discussion, where several presenters shared their research for the first time at a public setting. A lot of new connections were made and

old connections were able to reconnect. It was a successful evening all around!

Think like a Molecule!

Kurek Student Poster Presentation Award

1. Caleb Culy, Development of an oxypyridinium salt for the mild transformation of carboxylic acids to allyl esters, Ball State (#30)
2. Jericha Mill, Conservation Science Tutorial Website: Analysis of VOCs Emitted from Museum Construction Materials, Butler/IMA (#42)
3. Raheleh Ravanfar, Novel Synthesis of Lavendamycin Analogues and Related Quinoline-5,8-Diones, Ball State (#36)



Joe Kurek (left) poses with the Kurek Student Poster Presentation Award Winners: (L to R) Culy, Mill, and Ravanfar

ACS Chair's Poster Presentation Award

1. John Shukle, Understanding Sierra Nevada Arc Magmatism Using Zircon Geochemistry and Discriminant Function Analysis, IUPUI (#53)
2. Grace Lefevre, Candidate gene approach to development gene annotation in Cochliomyia macellaria, IUPUI/Project SEED (#5)
3. Allyson Morris, Studies on Solid-Phase Extraction for Analysis of Amines by Gas Chromatography-Mass Spectrometry, ISU (#24)



ACS Chair's Poster Presentation Award Winners: (L to R) Shukle, Lefevre, and Morris

Dean's Poster Presentation Award

1. Jacob Kinnun, Solid-state ^2H NMR Reveals the Impact of DHA on Molecular Organization in Raft-like Domains, IUPUI (#18)
2. Anna Martin, Development and Optimization of a specific and highly sensitive Oxyntomodulin Immunoassay, Home School, Project Seed (#24)
3. Geno Samaritoni, Identifying a potent inhibitor of Pseudomonas aeruginosa through the Distributed Drug Discovery (D3) process, IUPUI (#21)



Dean's Poster Presentation Award Winners: (L to R) Kinnun, Martin, and Samaritoni

Passport to Hi-Tech Inspires Girls to Follow STEM Careers

Amparo de la Pena and Maria Alvim Gaston

Passport to Hi-Tech took place at Conner Prairie's Welcome Center in Indianapolis, IN, on March 5th as part of its Science, Technology, Engineering and Math (STEM) education outreach. The day-long event is a partnership between Conner Prairie and Women & Hi Tech, a nonprofit whose goal is to support women who are interested in technology through networking, role modeling, education and professional development. The intent of Passport to Hi-Tech was to provide girls between the ages of 7 and 12 years with opportunities for interactive experiences in different areas of science and to inspire their interest in STEM careers.

The exhibits included many branches of science including biology, chemistry, computer science, engineering, genetics and manufacturing. In addition, the booths were operated by women experts in STEM who were ready to answer questions. Each



girl received a passport that was stamped at the stations. There were more than 30 companies represented, including 1st Maker Space, Anderson University, Angie's List, Butler University, CE Solutions, CIM System Robotics, Cummins, Dow AgroScience, Eleven Fifth Academy, Engineering for Kids, Garrity Tool, Girl Scouts of Central Indiana, Go Electric, Indiana State University, INFFirst Robotics, IU, IUPUI, Ivy Tech, Eli Lilly, Marian University, Microsoft Store, Purdue, Roche, Rolls-Royce, St. Mary-of-the-Woods College, Starbase Indiana and Link Observatory, STEM Scouts and Video Game Palooza.

In addition to the exhibitor booths, there were live shows and presentations. Eli Lilly educated and inspired the audience with their show "Chemistry is a Blast!" which is an initiative started by one of their scientists over 20 years ago. The show was 50% science class and 50% "WOW." When asked at the end who wanted to become a scientist, many hands were raised! Other presentations included "How to Be a Doer" by Mikaela Gilbert, student at the Kelly School of Business, IU Bloomington; "Living on 'Mars' in Hawaii" by Jocelyn Dunn, PhD candidate at Purdue University and "You Go Green Girl!" by Lisa Laughner; Founder, President and CEO of Go Electric.



The American Chemical Society (ACS) had a station in collaboration with Eli Lilly and Company. Girls built molecular models of aspirin using model kits, made Gak using household ingredients, had their picture taken dressed up as scientists and completed color challenges by mixing solutions of different colors. In the process, they learned how to work as a team, formulate hypotheses and obtain results. Many questions were asked including questions about the chemistry of medicines and makeup and on how to become a woman scientist. The ACS/Eli Lilly table was recognized by the organizers for the design of fun “hands-on” activities for the children and for being full of budding chemists at all times throughout the day.



Attendance surpassed expectations with more than 1500 people attending the event. Hopefully some of these bright, young minds found their inspiration to pursue a career in STEM.

A New(ish) Science Organization in Indiana: CINSO

By Julie Holland and Melanie Fox

The Central Indiana Science Outreach is a volunteer organization with the goal of bringing local scientists and the community together. The group is open to all ages from all science disciplines including people who just enjoy learning about science; however, many of their activities are geared towards adults.

Last year, they participated in many events including Arts and Science Day with the Center for Inquiry, INDYVOLVED for the inaugural IndyHub event at the Central Library and both Rad Science and Indiana Spirits: POP! at the Indiana State Museum.

In addition, they partnered with the Center for Inquiry to host a series of monthly lectures called Café Inquiry. Last year, they highlighted local research in diverse areas such as forensic

entomology and genetically modified foods, philosophical debates about paradigms in basic research, and the biological basis of monster myths. The lectures continue this year with the following dates, speakers and topics:

April 20th: [William Scott, IUPUI – Educating global science students while they help discover drugs for neglected diseases](#), **May 18th:** [Juliet King, Herron School of Art and Design](#) – Art, Imagination, and Medicine and **June 15th:** [Karl Koehler, IU School of Medicine](#).

The organization is working to provide professional development opportunities to young researchers by recruiting them as volunteers for events and collaborating with other organizations to hold training workshops. They are currently working with Science Central in Fort Wayne on the workshop series Portal to the Public in which researchers are learning to create an interactive interface to share their research.



In addition, CINSO is working in conjunction with **Pint of Science** to bring their global festival to Indianapolis for the first time. This festival will take place from May 23-25 at several different Indianapolis area breweries. This is 21+ function which brings scientists out of the lab and out into public. It's a great way to cross paths and network with scientists from other discipline. They are also looking for volunteers for this event to take tickets, run a merchandise table, run beer for the speakers, run A/V equipment, and live tweet and coordinate with their social media director.

For more information on CINSO go to their website at: <http://cinsindy.org/>. For more information about the Pints of Science, check out their website at: <https://pintofscience.us/about/>.



2016 Indiana Section ACS USNCO Exam and Awards

By Bob Pribush

The results of the 2016 Indiana Section ACS USNCO Exam held at Brebeuf Jesuit Preparatory School on Saturday, March 19, 2016 are here! There were a total of 232 students who took the exam: 162 first year exam (average score 24/60) and 70 advanced exam (average score 34/60).

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

plus a practical laboratory exam, to be held at Butler University on Saturday, April 23, 2016. Students are encouraged to accept the offer if called. The USNCO goal is to get Hoosier students to qualify for the three-week USNCO camp at the United States Air Force Academy from which the USNCO team will be chosen. USNCO will work with the students to enhance their chances for success.

First Year Exam 1 st place – \$100 and plaque Kevin Liu Carmel 2 nd place (tie) – \$100 and plaque Parker Jou Carmel 2 nd place (tie) – \$100 and plaque Andrew Wu Park Tudor Honorable mention – plaque Rik Bag Carmel Michael Hu Carmel Pratim Moulik Carmel Nikhil Raghuraman Carmel Pranav Sriram Carmel Rachael Tan Carmel Barry Wei Carmel James Yin Carmel Jessica Zhang Carmel Alex Kim Park Tudor Jeremy Klotz Park Tudor Rena Li Park Tudor Jonathan Moore Park Tudor Varun Chheda Sycamore School Jenny Zhao Sycamore School Cherin Kim West Lafayette Team Award – AACT membership and plaque 1 st place Carmel 2 nd place Park Tudor 3 rd place Hamilton Southeastern 4 th place Zionsville 5 th place Fishers	Advanced Exam 1 st place – \$100 and plaque Allen Zhang Carmel 2 nd place (tie) – \$100 and plaque Brendan Yap Carmel 2 nd place (tie) – \$100 and plaque Alan Jiang Lawrence Central Honorable mention – plaque Asim Dhungana Carmel Ayan Mitra Carmel Allen Zhao Park Tudor Evan Wang Zionsville Team Award – AACT membership and plaque 1 st place Carmel 2 nd place Zionsville 3 rd place Indiana Academy 4 th place Park Tudor 5 th place Fishers Perpetual Plaque Award Avon Haowei Shi Brebeuf Jacquelyn Knobelsdorf Carmel Allen Zhang Chatard Timothy Good Fishers Elijah Kipp Hamilton Southeastern Ishaan Modi Indiana Academy Andrew Quest Knightstown Kamryn Reed Park Tudor Allen Zhao Plainfield Seth Prater Providence Christo Rey Jasmin Hernandez University Zhongtian Chen Zionsville Evan Wang
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Students Who Qualified for the National USNCO Exam:

Jacquelyn Knobelsdorf	Brebeuf	Andrew Quest	Indiana Academy
*Miles Dai	Carmel	Alan Jiang	Lawrence Central
Brendan Yap	Carmel	Andrew Wu	Park Tudor
Allen Zhang	Carmel	Allan Zhao	Park Tudor
Tim Good	Chatard	Seth Prater	Plainfield
Elijah Kipp	Fishers	Evan Wang	Zionsville
Ishaan Modi	Hamilton Southeastern	Kyle Wang	Zionsville
Robert Balin	Indiana Academy		

*Students automatically qualifying on the basis of their scoring in the top 20 nationally in 2015.

Congratulations to all of the participants of the 2016 USNCO Exam!

Annual Awards Banquet

By Kathy Stickney

The Annual Awards Banquet of the Indiana Section of the American Chemical Society will be held from 5:30 PM – 8:30 PM, on Tuesday, May 10, in UIndy Hall of Schwitzer Student Center on the campus of the University of Indianapolis, 1400 East Hanna Avenue, Indianapolis, IN. Awards will be presented to the top scoring students and schools who participated in the 2016 Chemistry Olympiad Examination, 50 plus-year ACS members, and members who have made major contributions to the American Chemical Society.

A map of the University of Indianapolis campus and driving directions can be found at:

<http://www.uindy.edu/map-and-directions>.

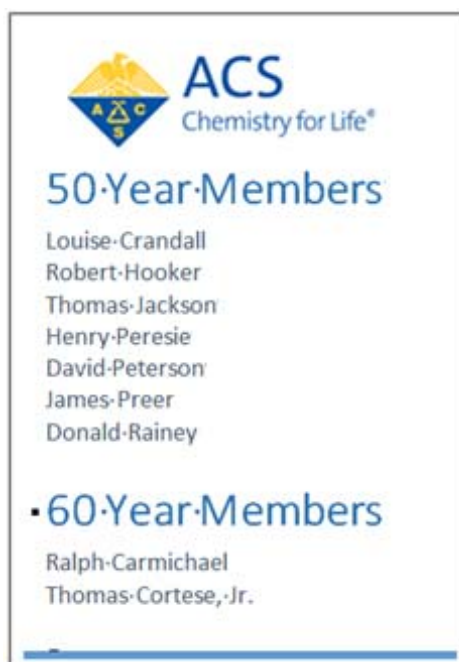
The cost of the event: free for students, other awardees, and high school teachers. Cost for others is \$14 - payable at the door by cash or check.

RSVP to Kathy Stickney by Thursday, May 5, at kstickney@uindy.edu or 317-788-3552.

**All are welcome to the
AWARDS ceremony!**

Tribute to our 50 and 60 – Year Members

Congratulations are in order for the nine members of our section who have reached 50 and 60 years of service! They will receive certificates at the awards banquet on May 10 signed by Donna Nelson, President and Tom Connelly, CEO. We offer our congratulations and sheer gratitude for such long records of service to the Society. We look forward to meeting you at the ceremony! Please RSVP to Kathy Stickney.



American Chemical Society Indiana Section Annual Awards Banquet

Tuesday, May 10, 2016
5:30 PM – 8:30 PM

University of Indianapolis
1400 East Hanna Avenue
UIndy Hall, Schwitzer Student Center

<http://www.uindy.edu/map-and-directions>

RSVP to Kathy Stickney by Thursday, May 5, at kstickney@uindy.edu or 317-788-3552.

Celebrate 2016 Earth Day!

By Linda V. Osborn

Earth Day is at the core of the ACS Mission statement, which is “to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people.” In fact, many chemists are very passionate about every day being Earth Day.

The EARTH DAY movement is entering its 46th year of inspiring action. Although April 22, 2016 is the official day, there are many activities going on the entire week and beyond within industries, schools, and communities.

Many members are already committed to their own organization or community's special activities. If you are looking for a way to get involved, we invite you to join the Heritage Earth Day activities to be held on Friday, April 29th at 7901 West Morris St. in the morning. We will be planting 100 trees along with other activities and all that help are invited to our luncheon on site. We will showcase an ACS booth to help with inspiration of the perspiration required to honor Mother Nature. If you are interested, please contact me at linda.osborn@hrglab.com.

Community events in your area can be found at <http://www.earthday.org/earth-day/>

The ACS encourages us all to be Earth advocates and their site contains many great ideas; visit <http://www.acs.org/content/acs/en/education/outreach/cced.html>

Other Indianapolis area events that you might be interested in follow:

2016 EARTH DAY INDIANA FESTIVAL

Saturday, April 23rd, 2016 - 11am - 4pm
Military Park, Indianapolis
Theme: *Earth Day Begins at Home*
130 Exhibits on environmental protection, conservation of resources, sustainable living.
Live music and food available

“KEEP INDIANAPOLIS BEAUTIFUL” EVENTS

Glen Ridge Tree Planting | April 2
Eagles Landing Tree Planting | April 2
Happy Hour Weeding @ KIB | April 14
Ladywood Gardens Tree Planting | April 16
Lakeland Trails Tree Planting | April 16
April Great Indy Cleanup | April 23

Regardless of which activity or activities you participate in, thanks for making a difference!



*Happy 110th Birthday to the
Indiana Local Section of the American Chemical Society
and Happy 140th Birthday to our National Section!*

Project Seed Intern, “I’m Grateful for Opportunities and Scholarships”

By Cassie Washam

I take a deep breath as I approach the stage. The auditorium is full of professional scientists, graduate students and post docs. I’m still in high school. My stomach has been in knots; however, I feel relaxed as I get closer to the podium, almost at home. I am presenting at DePauw University for the Indiana Physiological Society Annual meeting.

After submitting my abstract to this Society, I was given the opportunity to make an oral presentation. I was the only high school student selected. To be asked to participate at this meeting was an honor, but to give an oral presentation was the cherry on top. As the day



continued, many professors, society members, researchers, and science professionals complimented me on my presentation, asked questions, and gave me contact information. Because of this opportunity, I have been able to network with multiple brilliant researchers and open up endless resources that I can use in the future. Presentations like this are ideal for networking and provide a specific audience that helps me tailor my presentation to their appeal.

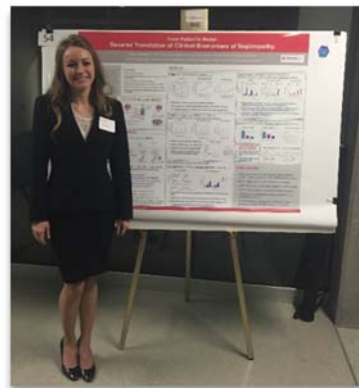
That was a busy week. Prior to the physiological presentation on Saturday (February 27th), I also did a poster presentation of my summer

research at the “Think Like a Molecule” poster session at the IUPUI School of Science on Thursday

evening with other SEED interns, IUPUI students, scientific research professionals and others.

This presentation

allowed me to convey my project to the local community and discover what other topics of research existed in Indianapolis and at the University.



Opportunities such as this have taught me priceless lessons. Doing research and advocating for it are great ways to impact the scientific community; however, putting it into action is the best way to create more opportunities, expand your own mind and network with individuals that will be able to expand your knowledge and experiences despite your own experience, age, and type of research. These resources hold infinite opportunities for the future.

Because of the opportunities that Project SEED, The American Chemical Society, my mentor at Eli Lilly and Company and others have provided me, I was able to build my resume and recommendations which led to winning the Community Foundation of Boone County’s Eli Lilly Endowment Scholarship, a full ride to any state college or university.

I was also awarded the American Chemical Society’s Scholarship for \$5000. I can apply for its renewal each year. With these resources that have built me up as an individual and the help of these scholarships, I will be able to focus more

on continuing my research and advocating for science while I accomplish my dreams of getting degrees in Biochemistry and Biotechnology and

impacting the love of people around the world through my scientific contributions. For this I am forever grateful.

Project Seed Alumnus Continues Research at Vanderbilt

By Seth Reasoner

For two summers while I was in high school, I was fortunate to participate in the Indianapolis Project SEED program sponsored by the American Chemical Society and its local Indiana chapter. Each summer, I spent eight weeks working in pharmaceutical research and development labs at Eli Lilly and Company. Those two summers converted me from an aspiring biologist to a chemistry fanatic. I soon fell in love with the exhilaration of discovery and even the mundane trench work punctuated by those elusive eureka moments. Thanks to the Project SEED program, I was able to begin my journey as a researcher even before beginning college.

I am now in my sophomore year in college at Berea College in Berea, KY, where I am majoring in Chemistry with a concentration in Biochemistry. In addition to my classes, I work as a chemistry teaching assistant. I have received generous scholarship support from the American Chemical Society and the Project SEED national office.

During the summer of 2015, after my freshman year of college, I spent the summer working at Vanderbilt University Medical Center in the Department of Biochemistry in the lab of Manuel Ascano Jr., Ph.D. I worked on a project evaluating potential drug compounds for their effect on an innate immune pathway. This project was my first exposure to biochemistry and molecular biology research. I presented results from my project at three research symposiums, including

an NIH-sponsored undergraduate conference in Atlanta, GA. This coming summer, I have decided to return to the same lab at Vanderbilt. I hope to build on the work I did last summer, while continuing to grow as a young scientist.

During my junior year of high school, I distinctly remember the two options I considered for the approaching summer. The first option was Project SEED; the second option, working at a local movie theater. I often wonder how

During my junior year of high school, I distinctly remember the two options I considered for the approaching summer. The first option was Project SEED; the second option, working at a local movie theater. I often wonder how different my life would be if I had not participated in Project SEED. Those two summers in high school showed me career possibilities I had never considered. I was able to experience world-class research before graduating from high school. My participation in Project SEED catapulted me into my current educational goals and research activities. Thanks to the support of the American Chemical Society and its local Indiana chapter, I was able to shape the trajectory of my career as a scientist while still in high school. Thank you!

member-get-a-member

Invite a friend or colleague to become an ACS member and receive a Periodic Table of the Elements blanket!



Be sure to follow the Local Section on Facebook,
<https://www.facebook.com/ACSINLocal> to keep up with the latest events and
information.

In addition, we now have a Twitter account! Check us out at [@ACS_Indiana](#)

Also, look for our new WEBSITE coming later this year. In the meantime, you can
still access Local Section news and Accelerator archives at
<http://indiana.sites.acs.org/>

Notes from the National Meeting

Brian Mathes and Julie Holland

The 2016 Spring National ACS meeting was held in San Diego on March 13 to 17. The ACS Council Meeting was held March 16 and the Board of Directors meetings were held March 11-13. Key actions for the ACS were discussed throughout the week.

Nominees for the President-Elect, 2017 were narrowed to two candidates: Peter K. Dorhout and Thomas R. Gilbert. Directors from Districts II and IV were selected. For District II, George M. Bodner and our very own **Christina C. Bodurow** were nominated! Rigoberto Hernandez and Larry K. Krannich are the candidates for District IV. Candidates for the Directors-at-Large for 2017-2019 terms include Joseph A. Heppert, Kristin M. Omberg, Dorothy J. Phillips, and Kathleen M. Schulz.

In addition to nominations and elections for 2017, the budget, membership numbers and fees, revisions to the chemical professional's code of conduct, academic professional guidelines, discounted early registration fees for

national meetings and Presidential succession were just a few of the many items discussed.

As of December 31, the ACS membership was close to 157,000 with 25,000 new members joining in 2015 and an overall retention rate of 84%. There were approximately 16,327 attendees of which 5,979 were students.

Executive Director and CEO Thomas M. Connelly, Jr. discussed ACS membership programs, reviewed the Information Technology area, and offered personal reflections on his first year as Executive Director and CEO. His direct reports updated the Board on the activities of Chemical Abstracts Service (CAS), the ACS Publications Division, the Office of the Treasurer and CFO, and the Society's Secretary and General Counsel.

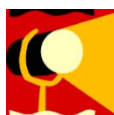
The members of the Presidential Succession briefed the Board on their current and planned activities for 2016. President Donna Nelson highlighted presidential programming at the San Diego meeting on employment and diversity in the chemical sciences, and on organic chemistry education. Also, a special discussion topic on the U.S. Employment of Chemists was conducted at the Council meeting.

The Board held a well-attended open session which featured Amy Harmon, a reporter for the New York Times, who covers the social implications of science and technology. Ms. Harmon's topic was *"Telling Science Stories: Dispatch from the Conflict Zone."*

Prior to the presentation, members of the presidential succession and the Executive Director and CEO offered brief reports on their

activities. The officers provided more extensive reports on their activities and/or future plans as part of their written and oral reports to the Council.

For more in-depth reporting on the ACS National Convention, please see C&EN News March 21st, 2016 Volume 94, Issue 12.



Member Spotlight: Linda Osborn, Our 2016 Chair

By Julie Holland

One of the items that our 2016 Chair asked me to do as the Editor of the Accelerator is to try to incorporate more human interest pieces in the newsletter. In the past, we've had both a technical spotlight which highlights specific technologies that members use and a member spotlight which features a member of our Local Section. As I was thinking about whom or what should be the next person or technology featured, I thought, why not Linda? You've all probably seen her name on countless articles and many of you have met her in the countless committees in which she's involved. So I thought I would take a minute write about her so you can get to know this amazing woman a little better.

Although born in Cincinnati, Linda originally hales from St. Bernard, OH. She attended St. Clement Grade School and Our Lady of the Angles High School before leaving home for college at the young age of 17. She attended both Marian College and University of Indianapolis initially studying teaching then later chemistry. She initially taught at St. Michaels Grade School for a year followed by working in a lab DA Lubricant Company for 6 years before moving on to her 32 year career at Heritage.

When asked what made her want to study chemistry, Linda tells me, *"Education was my original focus, and after working in a laboratory at DA for 6-years, they closed the lab and shortly thereafter I was hired at Heritage Environmental Services in their Commercial Laboratory. Since they paid for relevant continued education, I started taking Chemistry classes at UIndy. The light-bulb came on 'Ah, that's what I've been doing.' It was a great way to learn, having some lab experience under my belt. Before long, I started accumulating credits until I had enough to earn my Chemistry degree."*

Linda's primary job with Heritage Research Group has focused on asphalt fume chemistry. She was a key figure in determining whether or not there is a detrimental health impact of these fumes on workers in asphalt applications. A quick Scifinder search of her name yields many

I've always enjoyed school and learning.

publications in the form of patents and peer-reviewed journals such as the Journal of Occupational and Environmental Hygiene, Road

Materials and Pavement Design, Environmental Science and Technology, and Polycyclic Aromatic Hydrocarbons. Currently, she is a Senior Project Chemist who works with both *“internal and external clients coordinating research and/or investigations using the analytical instrumentation that we have at Heritage Research Group.”*

Her career at Heritage has consisted of working for and with amazing bosses, colleagues and mentors while in return she has proven to be an amazing boss, colleague and mentor herself. As she’s risen through the ranks from a lab technician to a leader at Heritage, she reflects that she is lucky that she has had a career that compliments her love of learning. *“There are so many situations where what I’ve learned can be applied and expanded on and every day, I learn something new”*. Those of us who know her from either work or through the ACS know that she dedicates herself wholly to the job at hand. *“I think that my highest achievement in my career has been giving it my all; whatever it takes to get the job done with as high a quality as I know how.”*

Regarding her involvement in the ACS, Linda’s love of science and appreciation for her peers shines through. *“I am proud to be a part of such a great organization and having the honor to work with so many great minds and people all over the world. Additionally, my involvement with ACS has made me a better chemist and a better person and the outreach is near and dear to my heart. I am very grateful for all of the wonderful ACS volunteers that I have worked with over the years. We have such a great pool of talent in our Indiana local section, and I look forward to seeing all that we can accomplish together. I have learned so much from so many of you.”*

Linda has a large, close family with 4 sisters and 5 brothers who relied on each other after losing their mother at a young age (Linda was just 3) to a cerebral aneurism. She says that even though they had a tumultuous childhood, they all weathered the storm and have gone on to do well for themselves and their families. She, herself, has a wonderful husband of 36 years, Gary, and three children: Misty, Eric, and Nick whom are the light of her life. In addition, she has 2 delightful grandchildren, Ava (7) and Matthew (9) who bring joy and fun to her life and help her keep things in perspective.



The Osborn family on vacation in Destin, FL (March 29, 2016)

Outside of work, Linda enjoys all of the ACS activities in which she is involved including planning, organization, and attending events sponsored by the Local Section. She is also on the Board of Directors for the Science Education Foundation of Indiana which hosts the Hoosier Science and Engineering Fair and Celebrate Science Indiana!

Between her career and chemistry related extra-curricular activities and the time she spends with her family, her days are full and she shows no signs of slowing down. There is one thing she’s looking forward to doing in the near

future that she has yet to do. “My son, Nick, gave me a gift for my 60th birthday that I am looking forward to: a hot-air balloon ride! It was on my bucket list!”

Linda has a personal goal of making a difference in this world, and I would say she has done just that.

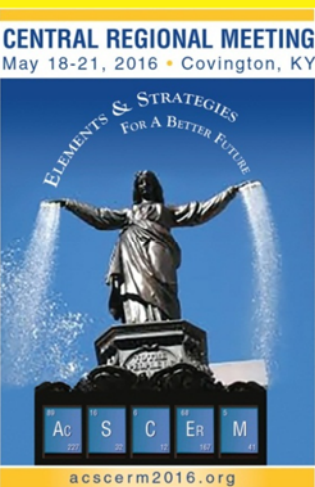
“We are on this earth but a blink; make that most of the time and count your blessings along the way!”

Spring Has Sprung (for You and Your Intern)

School will be letting out in short order which, for many of us, means that we will have interns in our labs for summer break. Please keep in mind that while some of these students may have experience working in the lab, there is a difference between working in an academic setting vs. industrial. Make sure to read any SDS and SOP's before sending your intern off into the lab. Be sure they are wearing their proper PPE. And be sure they are not distracted by loud music or cell phones while working with chemicals and equipment.

As their mentors and bosses, it is our responsibility to cultivate safety into their everyday activities and to make sure they return to school with a better understanding of the chemist's world.

Upcoming Regional & National Meetings




Cincinnati Local Section

Elements & Strategies for a Better Future

Register by May 1 to take advantage of discounted registration fees.

acscerm2016.org

JOIN US IN PHILADELPHIA
at the ACS Fall National Meeting and Exposition
August 21-25, 2016



52nd ACS National Meeting & Exposition

August 21-25, 2016 Philadelphia, Pennsylvania

Program Theme: *Chemistry of the People, by the People and for the People*

PLANNING FOR THE 2023 NATIONAL MEETING

As most of you know, the Indiana Local Section hosted the National Meeting here in Indianapolis in 2013. The event was so successful that we have been nominated to host another National Meeting in 2023! Since events like these take a long time to plan and coordinate, to be proactive, we are beginning discussions about the meeting this year.

Please join us on Thursday, September 22nd for a Blue Sky Event to learn more about how the last event was planned and to begin brainstorming ideas for the 2023 National Meeting.

“Before anything else, preparation is the key to success.” - Alexander Graham Bell

The poster features a blue background with the title "Blue Sky Event" in large white letters. On the left, there is a small image of the "ACS 2013 Chemistry in Motion" logo. Below it, a white box contains the text "SAVE the DATE" and "Sept. 22, 2016". A large black arrow points from this box towards the right, with the word "Preparation" written inside it. In the center, the text reads "265th ACS National Meeting & Exposition March 26-30, 2023 Indianapolis, Indiana". To the right of this text is a photograph of the Indianapolis skyline. Below the skyline photo is a graphic of two green street signs: "ACS 2023" and "Indianapolis". At the bottom left, there is a portrait of Christina Bodurow, with text stating she will speak about preparing for the 2023 meeting. The location is listed as "TBD".

ACS 2013
146th American Chemical Society National Meeting & Exposition
Chemistry in Motion
Indianapolis, IN • September 8-12, 2013

Blue Sky Event

265th ACS National Meeting & Exposition
March 26-30, 2023
Indianapolis, Indiana

SAVE the DATE
Sept. 22, 2016

Preparation

Christina Bodurow, who led the way for the 2013 National Meeting in Indianapolis, will speak to how we can prepare for the 2023 meeting.

Location - TBD

ACS 2023
Indianapolis

Join the Local Section ACS in conjunction with NOBCChE at this important event, **Impress for Success**, on November 12 at the IUPUI Science Building.

This workshop is designed to help students maximize their potential for success in STEM professions by giving them the tools they need to do so as well as networking opportunities.

The poster has a blue header with the title "Impress for Success" in white. Below the title, the date "November 12, 2016" and location "IUPUI Science Building" are listed. A yellow banner contains the text "Workshop for Advancement of under-represented minority STEM College & University Students". Below this, a blue banner says "Contact trp@iupui.edu for more information". At the bottom, there are logos for NOBCChE (National Organization for the Professional Advancement of Black Chemists and Chemical Engineers) and ACS (Chemistry for Life).

Impress for Success
November 12, 2016
IUPUI Science Building

Workshop for Advancement of under-represented minority STEM College & University Students

Contact trp@iupui.edu for more information

NOBCChE
National Organization for the Professional Advancement of Black Chemists and Chemical Engineers

ACS
Chemistry for Life®


Events in bold type are ACS sponsored

Event	Location	Date
28 th Annual Science and Engineering Fair (SEFI)	IUPUI Campus Center	April 2, Saturday
Science Day	Ball State University	April 9, Saturday
Reaction in a Bag	Indianapolis Children's Museum	April 20, Wednesday
<u>Science On Tap - Is it Cold in Here? Try Camping in Antarctica</u> with Kathy Licht	Metazoa Brewery	April 21, Thursday
Awards Night	University of Indianapolis	May 10, Tuesday
<u>Science On Tap – Enzymes Stepping on Landmines</u> with Dr. Steve Presse	Metazoa Brewery	May 19, Thursday
Pint of Science	Various	May 23-25, Mon-Wed
Jiggle Jelly	Indianapolis Children's Museum	May 25, Wednesday
<u>Science On Tap - Organizing a "Hoarders" House: Synaptic Protein Signaling in Parkinson Disease</u> With Anthony Baucum (A.J)	Metazoa Brewery	June 16, Thursday
Leadership by Influence	Heritage Interactive North	June 18, Saturday
Baseball Night	Victory Field	July 21, Thursday
Project Seed Poster Session		July 21, Thursday
Chemistry Solves Art Mystery	Indianapolis Museum of Art	Thurs, August 25
The Chemistry of Cheese with Maria Alvim Gaston	TBD	September 16, Friday
Blue Sky Event to Discuss 2023 National Meeting in Indianapolis	TBD	September 22, Thursday
Celebrate Science Indiana	Indiana State Fairgrounds	October 1, Saturday
The Chemistry of Beer with Brian Mathes	TBD	October 20, Thursday
National Chemistry Week	Indianapolis Children's Museum	November 5, Saturday
Impress for Success	IUPUI	November 12, Saturday
End of the Year Celebration	TBD	December 13, Tuesday

Save the Dates!

SCIENCE CAFÉ ○ FACE-TO-FACE CONVERSATION WITH A SCIENTIST

MOLECULES to MOZZARELLA:
The **CHEMISTRY** of **CHEESE**

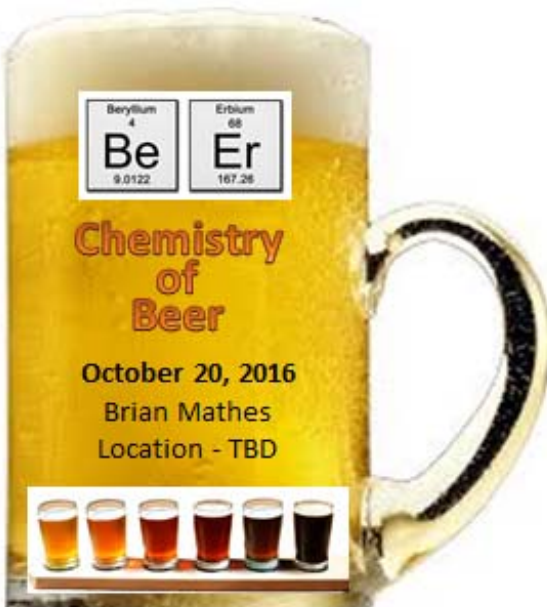


Dr. Maria Alvim-Gaston, Eli Lilly
September 16, 6-8 P.M.
Location: to be determined
Free and open to the public

Sponsored by the Indiana Section of the American Chemical Society.

Come learn about how
cheese is made on
September 16th!

Learn how beer is made and sample
some of Indianapolis' craft brews on
October 20th!



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Erbium 68 Er 167.26

**Chemistry
of
Beer**

October 20, 2016
Brian Mathes
Location - TBD

INDIANA STATE FAIRGROUNDS BLUE RIBBON PAVILION

CELEBRATE
SCIENCE
INDIANA®



www.celebratescienceindiana.org

SAVE THE DATE
OCTOBER 1, 2016
9:30 AM - 5:30 PM

Bring the family to this free
event and teach them about
science through hundreds of
cool demonstrations! October
1st!

NCW T-Shirt Design Contest (K-12)!

Looking for K-12 students in economically disadvantaged areas to participate in our T-shirt design contest.

Contact alvim-gaston_maria@lilly.com

Photo: As a 2015 volunteer, Vanessa Xiao is wearing a T-shirt with the winning design while volunteering.

**NCW 2016 Illustrated Poem Contest**

K-2

3-5

6-8

9-12

Contact linda.osborn@hrglab.com

Join us at the Children's Museum for a day of Science Activities – November 5th!

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