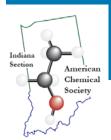
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AMERICAN CHEMICAL SOCIETY

Accelerator



INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY

SEPTEMBER, 2015

Chair's Corner BY MATT GARDLIK



The Indiana Local Section continues to gain momentum on the local level as well as the national level.

As you may know, our Section is now a large section, which

means that we will be voting this year to elect an additional Councilor to represent the section at the National Level.

At the recent National Meeting in Boston, the Indiana Local Section won three ChemLuminary awards:

- Outstanding Continuing Public Relations Program of a Local Section
- Outstanding or Creative Local Section Younger Chemists Committee Event
- Outstanding On-going NCW Event

More information on the ChemLuminary awards is discussed on page 5.

Celebrate Science Indiana will take place on October 3rd at the Indiana State Fairgrounds. CSI will host chemistry teachers and engage them in the newly-formed American Association for Chemistry Teachers (AACT). If you're a chemistry teacher, please

join us for a lunch reception with many giveaways for those in attendance.

In November, the section will be celebrating National Chemistry Week with activities at the Indianapolis Children's Museum. The theme for this year's NCW is "Chemistry Colors Our World." We'll host interesting demonstrations for young scientists involving chemistry, and enjoy the afternoon at the museum.

Hope to see you there!

A Special Thank You to



The activities that the Indiana Section of the ACS helps to organize and participate in would not be possible without the support of our members, employers, and business community. The section recently received a \$10,000 donation from Dow AgroSciences. This donation will help to support the activities mentioned above as well as many others. The section would like to thank Dow AgroSciences for their continued support!

2015 Executive Committee Chair-
Matthew Gardlik
Past Chair- Erin Dotlich
Chair Elect-Linda Osborn
Secretary-Tamiko Porter
Treasurer-Paul Ridenour
Councilors-Robert Pribush, Dawn
Brooks, Brian Mathes
Alternate Councilors- Sibel Selcuk,
Amy Debaillie, Robert Sammelson
Members at Large-, Ling Shi (Tom)
Xiao, Shamus Driver, Maria Alvim-
Gaston
2015 Committee Chair
Education-Bob Pribush
Events- Sibel Selcuk, Amy Debaillie,
Robert Sammelson
Fundraising Committee-David Mitchell
Public Relations-Andrea Lindsay
Frederick
National Chemistry Week-Shamus
Driver
Awards-Kathy Stickney
Science Day-Jason Dunham
Women Chemists-Amy Debaillie
Grants-Amy Debaillie, LuAnne
McNulty
Accelerator Editor-Julie Holland
Project Seed-Elmer Sanders, Josh
Taylor
Young Chemists- Open
High School-Erica Posthuma-Adams
Webmaster – Matt Gardlik

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Indiana Section of the American Chemical Society

Call for Nominations

The Indiana Section is calling for nominations to serve as officers for 2016.

Indiana has had an exciting couple of years and is now classified as a LARGE section. Indiana just won three ChemLuminary awards! There's never been a better time to get connected and involved in our section. We are also looking forward to hosting another national meeting--in 2023.

The Indiana Section is in need of people willing to serve to bring chemistry and chemical education to central Indiana. Every October a new slate of officers is elected by the membership to serve on the executive committee. We are currently seeking nominations for the following officers:

- Chair-Elect (who will serve as Chair the following year),
- > Treasurer
- Secretary
- > Two Councilors
- > Alternate Councilor
- > Three Members-at-Large

The Chair-Elect, Councilor, and Alternate Councilor serve for three years; and the Treasurer, Secretary, and Members-at-Large serve for one year, with all terms beginning on January 1, 2016. Involvement is rewarding.

If you would like to serve on the Executive Committee or know someone who may be willing, please send your nominations to Section Chair, Matt Gardlik at:

matt@mattgardlik.com

Additionally, if you have any questions about the roles and responsibilities, please email Matt with any questions you may have.

Please let Matt Gardlik know by September 25th. We will begin preparing for elections after that, which will once again be done electronically.

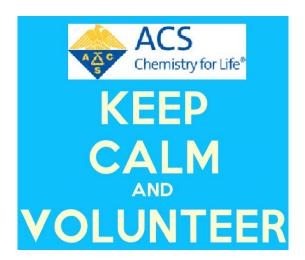
Voluntary Appointments Needed for the Local Section Board

By Linda V. Osborn

In addition to the elected positions for the Local Section of the ACS, four volunteer appointment positions are open for the board. These include:

- Grants Committee Chair
- Young Chemists Committee Chair
- Senior Scientists Committee Chair
- > Minority Affairs Committee Chair

The **Grants Committee Chair** is charged with coordinating the grant program to further the interests and goals of the Indiana Section and its members. The Committee shall research and recommend to the Executive Board grant opportunities, coordinate the procurement, receipt and acknowledgement of grant funds.



The Young Chemists Committee Chair identifies the needs and concerns of younger chemists and develops programs responsive to their needs. The Chair also facilitates professional networking among younger chemists.

The **Senior Chemists Committee Chair** surveys retired chemists to determine how they, as a group, can provide special services to the section such as judging science fairs, hosting tour speakers, volunteering for weekday events during National Chemistry Week, and mentoring younger chemists.

The **Minority Affairs Committee Chair** develops programs and activities that encourage and support minority participation in the chemical sciences.

Please contact your Local Section Chair, **Matt Gardlik** by **September 25**th regarding these opportunities:

matt@mattgardlik.com





Saying Thank You to Our Local Educators

By Erica Posthuma-Adams

The Indiana Local Section is partnering with NOBCChE to help promote the new American Association of Chemistry Teachers (AACT) and celebrate the local educators who are helping to spread the love of science to our future chemists.

Please help us by inviting K-12 teachers of chemistry to the recognition luncheon which will be held on Oct. 3 at the Indiana State Fair Grounds. This special event will take place from noon to two o'clock and will provide free food and adult beverages to all elementary, middle school science and high school chemistry teachers. We will be highlighting the resources and benefits provided by AACT, as well as giving away door prizes.

If there's a special teacher in your or your child's life, please encourage them to go to

http://www.celebratescienceindiana.org/20
15-teachers-of-chemistry-appreciationluncheon/ and register by September 18.
Questions can be directed to Erica
Posthuma-Adams at:

Erica.A.Posthuma@gmail.com

National ACS Presidential Elections Are Coming Soon

By Dawn A. Brooks

A reminder to the members of the Indiana Section to participate in the upcoming ACS *Presidential election:*

Candidates for President-Elect, 2016

- ➤ **G. Bryan Balazs**, Associate Program Leader, Lawrence Livermore National Laboratory, Livermore, CA
- Allison A. Campbell, Associate Laboratory Director, Pacific Northwest National Laboratory, Richland, WA

For more information on these candidates and other positions, please visit:

http://www.acs.org/content/acs/en/about/governance/elections/candidates.html

Look for information regarding voting for next year's Committee in early October.

Updates from the National Meeting in Boston

By Dawn A. Brooks

Employment Status

The committee on *Economic and Professional Affairs* reported at the Boston ACS National meeting that ACS ChemCensus data showed that Domestic Unemployment among ACS

member chemists edged slightly upwards in the last year from 2.9% to 3.1%. Still, the current unemployment rate is lower than it was from 2009 to 2013. The ChemCensus also showed a modest salary increase year-over-year. For the first year since 2004, the percentage of ACS members working in manufacturing increased. These trends are mirrored by a slight decline in the percentage of members in academia. Other workforce categories remained relatively flat.

Approval for the Expansion of International Chemical Science Chapters

On the recommendation of the Committee on International Activities, the Council of the ACS **VOTED** to approve the establishment of the Australia, Brazil, Nigeria, Peru, and United Arab Emirates International Chemical Sciences Chapters, subject to confirmation by the Board of Directors. They will join previously established International Chemical Sciences Chapters in Hong Kong, Hungary, India, Malaysia, Romania, Shanghai, Saudi Arabia, South Africa, South Korea, Taiwan and Thailand.

Positive Impacts of the Reopening of the Cuban Embassy

By Bill Scott and David Mitchell

On Friday, August 14, 2015, the United States reopened its embassy in Cuba. Only 48 hours

later, two of our section scientist attended International Activities Committee the Symposium: "Opportunities for U.S./Cuba Collaboration in Chemistry, Chemical Engineering, and Chemical Education" at the 250th **ACS** National Meeting Boston. Professor Bill Scott (IUPUI) and Dr. David Mitchell (Eli Lilly) were present at the symposium.

At that session Bill made contact with Professor Daniel Garcia Rivera from the University of Havana (UH). Based on their similar research and educational interests he invited Bill to Cuba to discuss a potential IUPUI/UH collaboration based on IUPUI's Distributed Drug Discovery (D3) project, which seeks to find drugs for neglected diseases by integrating drug research into interdisciplinary education of undergraduate and graduate students throughout the world.

David was interested in Cuba's chemical manufacturing infrastructure. His impression was that the island nation has a relatively strong outlook in biotechnology processing with collaboration outside of Cuba.

Hopefully, this is also the start of the Indiana Section relationship with a geographic neighbor that is only 90 miles away from the US mainland.



UNSCO Exams for 2016

By Robert Pribush

The Indiana Local Section United States Chemistry Olympiad Exam will be at Brebeuf Jesuit Preparatory School, tentatively from 8:00 until noon on Saturday, March 19, 2016. Students with one year or less of formal high school chemistry may take the First Year Exam. Students with more than one year of high school chemistry may take the Advanced Exam. Students who wish to be considered to take the National United States Chemistry Olympiad Exam in April must also take a supplementary qualification exam.

Information about the United States Chemistry Olympiad and examples of previous local section and national exams can be found at:

www.acs.org/content/acs/en/education/students/highschool/olympiad.html

Students register to take the exam through their high school teachers, who will receive rules and registration forms in January 2016.

Be sure to follow us on Facebook: https://www.facebook.com/ACSINLocal

For Accelerator archives, go to: http://indiana.sites.acs.org/

ChemLuminary Awards: Congratulations to Our Local Section!

By Brian Mathes

Each year the American Chemical Society National Office rewards all the outreach and volunteerism that local sections and divisions do with ChemLuminary awards. The ACS sets aside a night at the fall meeting every year to give out these awards and treat the local sections to a Oscar award-like night full of red carpets and dancing.

The Indiana Section's 3 councilors were in attendance at this event which featured a 2 hour long poster session where the nominated sections shared their events and networked ideas to enhance future section programming. After this poster session, it was time for the awards and the whole entourage moved to a large decorated ballroom reminiscent of a Grammy award night.

The Indiana Section was up for 9 of these awards including Most Outstanding Local Section. The nine nominations are a great recognition of our work in the community. The Indiana Section won 3 of the awards Congratulations to all those involved in the award winning categories!



Outstanding Continuing Public Relations Program of a Local Section

The Indiana Section assisted with the planning of the Celebrate Science Indiana public event and hosted a booth featuring hands-on, interactive activities for kids of all ages. Over 4,000 participants enjoyed the activities including ACS President Diane Grob Schmidt and WFYI's Sid, the Science Kid.

Outstanding or Creative Local Section Younger Chemists Committee Event

After hosting chemists from the European Young Chemists Network at the ACS National Meeting, the Indiana Section was allowed to send four young chemists to a national meeting in Istanbul that resulted in one participant receiving an award.

Outstanding On-going NCW Event

For more than 20 years, the Indiana Section held its National Chemistry Week at the Children's Museum where several local, science-related organizations and educational institutions were invited to host kid-friendly and interactive educational booths. About 2800 people from the community attended.

Celebrate Science Indiana Festival Wins Outstanding Continuing Public Relations Program of a Local Section

By Linda V. Osborn



At the national meeting in Boston on August 18, 2015, American Chemical Society President Diane Grob Schmidt presented a ChemLuminary award to the Indiana Section for assisting with Celebrate Science Indiana. President Schmidt attended this outstanding continuing public relations program in 2014 witnessing the excitement first-hand. This award-winning festival is on the



Peter Cutts Photography

first Saturday in October and includes *over* 50 booths with hands on interactive active

Robert Yost holds the ChemLuminary Award with the planning committee gathered. Top row: Glen Cook, Joe Schwer, Kerrm Yau, Tom Turpin, Keith Anliker, Larry Sernyk Middle Row: Denise Slayback Barry, Walter Jessen, Jeff Jones Bottom Row: Nelson Shaffer, Glen Cook, Robert Yost, Linda Osborn, Kim Vogt. Rick

booths with hands on interactive activities for kids of all ages. Please join us for the 5th annual festival on Oct. 3, 2015 at the Indiana State Fairgrounds between 9:30 am & 5:30 pm. It is free to the public, parking at the Indiana State Fairgrounds is \$5. www.celebratescienceindiana.org. See Diane's supporting video at https://wimeo.com/126844466.



Know any K-12 Teachers of Chemistry? Please invite them for us!



More Fun with STEM at the Children's Museum:

By Brian Mathes

Chemical education and outreach is a top priority of the Indiana Section and the ACS. To this end, the Indiana Section has expanded its outreach program at the Children's Museum by adding an additional class "Reaction in a Bag" to the field trip classes we voluntarily teach and financially sponsor. In addition to "Reaction in a Bag", we also run a "Jiggle Jelly" program for the Museum. We urge all of our chemist parents to encourage their kid's science teachers and schools to sign up for these classes. Additionally, if you are interested in being a volunteer presenter for the classes, please contact Brian M Mathes mathes@lilly.com for more information on how to participate.



The following STEM activities are available through the Children's Museum:

PLANTS ALIVE! SEED GERMINATION

Grades K-1 Mondays, March-May 2016 Fridays, January-May 2016 10, 10:30, 11, and 11:30 a.m. 20 minutes, 30 students

Are plants alive? Where do they come from? Examine a seed to learn what makes it so special, and then test your green thumb b getting seeds ready to germinate. Take these baby plants back to your classroom to watch them grow.

DINOSPHERE: THE "REAL" STORY

Grades K-5 K-2 Tuesdays, August 2015–May 2016 3–5 Fridays, August 2015–May 2016 9:30 and 10 a.m.

20 minutes, 120 students

"Are the *Dinosphere* skeletons real?" The answer is more complex than you might think! Learn the differences between cast, singleanimal, and composite skeletons. Use fossil evidence to solve the three mysteries of *Dinosphere* and touch a dinosaur bone! (Online Unit of Study)

TEST TRACK

Grade 2-5 Thursdays, January-May 2016 10, 10:30, 11, and 11:30 a.m.

20 minutes, 30 students

Race cars are designed to be fast. Complete a scientific test to learn how different surfaces affect speed and motion. Learn how friction affects the way model cars move on a track. Don't forget to check out our IndyCar on Level 3!

JIGGLE JELLY

Grades 3–5 Wednesdays, Oct. 7, Nov. 11, 2015 Jan. 20, May 18, 2016 10 and 11:30 a.m.

60 minutes, 30 students

Explore the interesting world of chemistry and polymers with professional scientists. Students will create a student lab booklet. These workshops are sponsored by the Indiana Section of the American Chemical Society through financial and volunteer support.

NEW! REACTION IN A BAG

Grades 5-7
Wednesdays, Oct. 28, 2015;
Feb. 24, April 20, and May 25, 2016
10 and 11:30 a.m.
60 minutes, 30 students

Chemistry is everywhere! Explore the interesting and dramatic science of chemical reactions with professional scientists. Each student will perform his or her own chemical reaction, producing a surprising result.

These workshops are sponsored by the Indiana Section of the American Chemical Society through financial and volunteer support.

NEW! HEALTHY LAND, HEALTHY WATER

Grades 4–8 Fridays, August-December 2015 10, 10:45, and 11:30 a.m.; 12:15 p.m.

30 minutes, 30 students

Learn how human activity can impact the health of our land and waterways. Examine tools and explore techniques used by environmental scientists to evaluate water and soil quality.

The material is based upon work supported by the National Science Foundation under Grant No. DRL-1323117 and supported by subaward 001096-1213TCDRLG. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

NEW! RESEARCH IN SPACE: THE BIOREACTOR

Grades 6–8 Tuesdays, January–May 2016 10 and 11 a.m.; noon 50 minutes, 30 students

Examine the concept of microgravity and how it affects the work of astronauts living on the International Space Station. Explore a bioreactor, a machine developed by NASA astronauts to enhance medical research.

CELLS, DNA, AND LIFE

Grades 6-8 Thursdays, August-December 2015 9:30 and 11 a.m.; 1 p.m. 80 minutes, 40 students

Explore plant and animal cells using models, then extract and examine DNA from a plant. Learn about scientists who paved the way for biotechnology and discover where this new science will lead us in the future. (Online Unit of Study)

Fun in the Stands: The Local Section Enjoys America's Favorite Past Time

By Brian Mathes

The Indiana Section hosted its 14th annual Baseball and Trivia Night on August 11th at Victory Field and it was the best year ever! The Indiana Section wanted to put an emphasis on younger chemists and the younger chemists came out in full force. A total of 59 participants



attended a great night of baseball, with 44 of them under the age of 35. The weather was perfect and the seats were great for watching the Indianapolis

Indians take on the Toledo Mudhens. The Indians pulled a 10th inning win out of the bag to cap off the night.

Special thanks to the Butler Research Boot Camp for bringing out the most members. We

hope all the members enjoyed meeting each other and making a few chemist contacts.

Looking forward to hosting our 15th one next year!



Local Section ACS members having fun at the game - Photo taken by Linda Osborn



Local Section Board members (from left to right): Brian Mathes, Amy Debaillie, Robert Sammelson, Erin Dotlich, Ling Shi (Tom) Xiao, Linda Osborn, Andrea Lindsay Frederick, Bob Pribush and two future chemists - Brock Dotlich and Luke Frederick! Photo taken by Linda Osborn

National Chemistry Week Celebration at

Children's Museum



Volunteers Needed!

November 7, 2015

Shifts or all day (8:00 am until 3:00 pm)

Museum entry and free t-shirt included for volunteering

Volunteers needed to help with booths, volunteer check-in, handouts, etc.

For more information please contact: Erin Dotlich at

DotlichEM@Lilly.com



Volunteer Long Form Volunteer Short Form











National Chemistry Week 2015 Illustrated Poem Contest: "Chemistry Colors Our World"

The Indiana Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten - 12th grade.

Contest Deadline: September 25, 2015

Prizes: 1st Place = \$100, 2nd Place = \$50, and 3rd Place = \$25 All contestants get to display their Illustrated Poems at Celebrate Science Indiana on October 3rd and November 7th at the Children's Museum of Indianapolis with the winners announced at these events.

Contact: Linda Osborn <u>linda.osborn@hrglab.com</u> 317-390-3188 with questions. Send official entries to Linda Osborn at 7901 W. Morris St. Indianapolis, IN 46231.

Winners of the Indiana illustrated poem contest will advance to the ACS National Illustrated Poem Contest!

Write and illustrate a poem using the NCW theme, "Chemistry Colors Our World". Your poem must be **no more** than 40 words, and in the following styles to be considered:

HAIKU . LIMERICK . ODE · ABC POEM · FREE VERSE · END RHYME · BLANK VERSE

Participants are encouraged to explore topics related to:

- · Dyes and pigments
- · Absorbed and reflected light
- The chemistry of fireworks
- · Natural and artificial colors
- · Any other relevant topics

Entries will be judged based upon:

- · Relevance to and incorporation of the theme
- · Word choice and imagery
- · Colorful artwork

- · Adherence to poem style
- Originality and creativity
- · Overall presentation

colored pencils or markers. The text of the poem should be easy to read and may be printed with a computer, before the hand-drawn illustration is added, or the poem may be written on lined paper which is cut out and pasted onto the unlined paper with the illustration.

- . Only one entry per student will be accepted.
- . All entries must include an entry form
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners' names, likenesses and entries for editorial, advertising and publicity purposes.

American Chemical Society

Contest Rules:

- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the NCW 2015 theme, "Chemistry Colors Our World".
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined sheet of paper (of any type) not larger than 11" x 14". The illustration must be created by hand using crayons, watercolors, other types of paint,



PROJECT SEED Updates

By Elmer Sands and Julie Holland

Congratulations are in order for several Project Seed participants. First, Vishaal Mali travelled to the National Meeting in Boston where he presented his research at the ACS Sci-Mix. By the time that he graduates from high school, he was have co-authored 3 publications with his mentor, one of which he is listed as the first author.

Vishaal Mali's Project Seed 2015 Intern Testimonial Document can be read here along with Testimonials from 3 other students: Cassie Washam, Grace Coleen LeFevre, and Zuleima Sanchez:



Student Testimonials are not edited by the Accelerator

Adit Chandra and Helna Ma, both of Carmel High School, were named Mr. and Miss Science Indiana. For more reading about these two remarkable students, please read the following links:

http://www.insideindianabusiness.com/story/29866258/mr-and-miss-indiana-science-named-top-in-state

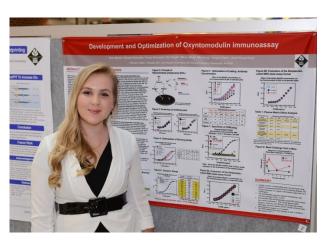
http://www.indianasenaterepublicans.com/news/2015/07/23/2015/state-sen.-luke-kenley-congratulates-mr.-and-miss-science-indiana/

In addition, 4 students wrote summaries on their experiences with Project Seed. Their essays are a glimpse in to the wonderful and unique experiences they have gained through Project Seed.

Inspiring Young Scientists

By Anna Martin

On Thursday, July 23, 2015, Indianapolis Project SEED, Indianapolis Project STEM, Purdue University Project SEED, and Indiana University Project STEM, collaborated to present a notable pre-collegiate research symposium. The 2015 Indiana High School Scientific Research Symposium and Poster Session was held at the Indiana University School of Medicine in the Van Nuys Medical Sciences Building.



Anna Martin Photo Courtesy of Denis Kelly Photography

The symposium provided a forum for students, research faculty, and the local scientific community to discuss innovative research topics and to examine the important connection between research and education. From industrial, medical, and academic labs, almost a hundred students from the central Indiana area presented the results of eight

weeks of progressive research in disciplines such as biology, biochemistry, chemistry, computer science, physics, and psychology. These students worked closely with distinguished scientists at renowned universities and industries including: IU, IU Medical School, IU School of Dentistry, Purdue, IUPUI, and Eli Lilly and Company. Each ACS supporter has helped young aspiring scientists medical professionals have and an extraordinary, life-altering experience.

Speaking on behalf of the recipients of ACS's generosity, we hope to pour into the community the time and aid you have poured into us. Thank you, ACS members, for your essential support to Project SEED students.



The mesmerizing atrium that I called home was the designated place for the Poster Session of 2015. I became accustomed to the jaw-dropping, tortuous DNA Tower illuminated by the glass ceiling at the VanNuys Medical Building. I was quite comfortable during the Poster Session not only because my office was in the vicinity of where I stood, but also because I had previous experience through a regional science fair and Speech and Debate Team.

However, I was slightly disappointed because my head mentor, Dr. Charlie Dong, was out-oftown, and my other mentor, Dr. Xiwen Xiong, said he was not able to attend because he was working in the animal facility and it was guite a walk to the medical center. Of course, I did not mind, but I sighed when I witnessed mentors embracing and posing with their fellow interns. The only person who attended was a graduate student from a different lab, Victoria, whom I had befriended over the summer. Victoria was astonished when I told her that Xiwen was not able to attend, and she told me that working at the animal facility was not an excuse for not attending my poster session.



Seed interns and I having fun -Photo Courtesy of Denis Kelly Photography

Subsequently, I headed back to my poster with Victoria, and I elaborated to her what I had done over the summer, which was working with Sirt-6, a stress-responsive protein, examining its interaction with several transcription factors such as Yin-Yang-1 (YY1), Activating Transcription Factor 2 (ATF2), and GA binding protein transcription factor (GABPA), and concluding that YY1 and GABPA are possible transcription factors to activate the Sirt-6 promoter, but more research has to be conducted in order to confirm this finding. I greeted 5-6 people afterwards, and I enjoyed explaining what I had accomplished. While waiting for a while, I was in absolute shock! My mentor, Xiwen, had arrived to visit me. He informed me that Victoria called him. I ran through my poster, and we rushed to take a photo. Even his stay for 10 minutes left me in satisfaction.

After an hour and a half, my feet started to ache, so I headed towards the refreshments and desserts to alleviate some of my pain. I laughed with the friends I made, and soaked in all the time and all the memories from the summer. Although the Poster Session was satisfying, I was primarily worried for my Physics Final that I had to take right after the public event. When everyone else was heading to the auditorium, I rushed to the car.

I realized that I loved science like even more than any dessert or sweets because I had a profound understanding in my subject, and I acquired knowledge that I know I will carry on and cherish for the rest of my life. My sweet

tooth for science will be a part of me forever.



My mentor, Dr.
Xiwen Xiong (on
the left), and me
(on the right)
standing in front
of the DNA
Tower -Photo
courtesy of Denis
Kelly Photography

From the Poster to the People

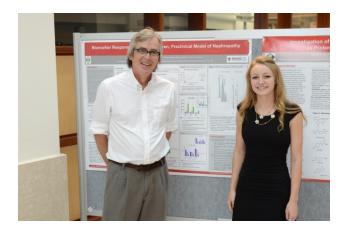
By Cassie Washam

The poster session had been the epitome of my worries since the beginning of my Project SEED experience. I was overwhelmed by idea that there were so many people interested in what I was doing, however at the same time I was overjoyed by the idea combined with the fact that they cared about my research with a genuine interest.

When the day finally arrived, I walked in with confidence and prepared to explain where my passions had been the past eight weeks. My first visitor approached and asked why I had been interested in my specific project after I gave a summary of the novel method I had developed.

As I answered with, "I knew that I would be able to affect others in a positive light", I saw a smile creep upon my visitor's face. This was the moment that I knew there was confirmation in everything I had done: a confirmation in my research, a confirmation in the idea that it would help others, and a confirmation within me.

As the poster session continued, I took a moment between presentations to look around and recognize the same smile that I earlier witnessed on both other students' and visitors' faces. They all knew that this was an amazing opportunity and the presentation was really only a fragment to everything had had been gained before the night of July 23rd.



Cassie Washam (right) and her inspirational Teacher, Mr. Mike Shlemmer (left) - Photo

Courtesy of Denis Kelly Photography

The poster session was a bittersweet moment to share the gains of Project SEED with others: the knowledge and skilled gains, the relationships formed, but most of all, the growth of every student. Whether the growth was mental, professional, or personal, it was visible in the students and their presentations. The poster session was the seal of approval to an unforgettable experience that will last a life time.

The Lovely Lilly Family: Fun Outside of Work By Sarah Law

"We are family, I've got all my sisters and me."



Just like the song goes, the students working at Eli Lilly are one big family. From "Fat Friday" to walks in the rain. the

group here at Eli Lilly is close knit. This group is comprised of students at Lilly Corporate Center

as well as Lilly Technology Center. For the purpose of clarity throughout the article, students from both locations will be named Eli Lilly students.

The Project SEED program was created to allow students the opportunity to get involved in research; however, due to the opportunities to meet students through a variety of Thursday picnics and social activities, close friendships often form over the course of the summer. It is amazing that students have the opportunity to get involved with research in high school, but it is icing on the cake that students can build life-long friendships with people their own age that share similar interests. The students at Lilly have taken full advantage of interacting and getting to know their peers in the work place. They have even gone further than just meeting weekly at picnics and Thursday administrative meetings.



Friends enjoying our internship at the Canal

Every Friday, all students meet at Lilly Corporate Center for a lunch called Fat Friday.

These luncheons traditionally involve everyone bringing some sort of junk food because teenagers love cookies! However, recently the students have expanded their taste buds to the theme "Cultural Fat Friday." This is nice for students to enjoy, and it is a bit healthier. These luncheons allow students to relax for an hour or so away from work, and it has helped everyone get to know each other throughout the summer.



Getting to know each other just does not take place at Friday luncheons; Lilly interns also gather for dinner on the canal. One of the program's administrative meetings took place at the Indiana Clinical and Translational Science Institute. The meeting gave all Project SEED interns the chance to interact with medical students and receive advice for navigating the college and medical school processes.

After the meeting, seven Eli Lilly interns walked down the canal to enjoy an Italian dinner at

Fresco Italian Café after a long day at work. This was nice time that built many friendships! It is wonderful that interns can gather together outside of work to share their research projects, as well as give one another advice on how to do their posters, abstracts, etc.

I hope this article gave you a better sense of what it is like to be a Project SEED intern at Eli Lilly. All enjoy their research and work hard during the days, so it is nice that students are able to interact with other interns outside of work and meet for lunch. The program is amazing enough for just giving students the opportunity to do research; however, it is great that along the way, interns establish friends for life and have fun doing it.



Happy Fall from the Local Section

With the fall season rapidly approaching the Local Section ACS would like to wish everyone both a Happy Halloween and a Happy Thanksgiving.

And even though we've all heard it time and time again, remember that family and safety come first!



ELEMENTS AND STRATEGIES FOR A BETTER FUTURE

CERM 2016 – 47th Central Regional Meeting of the American Chemical Society

May 18-21, 2016

Northern Kentucky Convention Center Covington, KY "The Southern Side of Cincinnati"

Stay informed on the latest details at ACSCERM2016.org



<u>Special Analytical Symposium honoring</u>

Prof. William Heineman

<u>Initiatives in Chemical Education</u>
Undergraduate Research Program
K-12 Teachers Program



Spectrum of Session Topics

Analytical Chemistry - Methods & Applications

Biochemical & Biophysical Approaches to Tackling Disease

Chemical & Biological Sensors

Direct Reading Instruments for Occupational & Environ. Health

Environmental & Green Chemistry

Geochemistry

Isotopic & Actinide Mass Spectrometry

NanoMaterials & NanoParticles – Health & Environ. Concerns

Organic Chemistry Photochemistry Polymer Chemistry

Radiochemistry

Biomolecular & Medicinal Chemistry

Catalysis & Sustainable Energy

Chemical Education

Computation

Fragrance & Flavors

Inorganic & Organometallic Chemistry

Metallomics

Nuclear & Chemical Forensics

Pharmaceutical Drug Design

Physical Chemistry

Polymeric Bioconjugates

Spectroscopy

Technical Program information, contact: Bill Connick (bill.connick@uc.edu) & Jeanette Krause (jeanette.krause@uc.edu) **K-12 Program information**, contact: Lynn Hogue (lynnhoguets@gmail.com) & Linda Ford (linda.ford@7hills.org)

Vendor & Exhibits information, contact: Vanessa Frost-Barnes (vfrostbarnes@markes.com)

Meeting Registration information, contact:Steven Mills (millss4@xavier.edu)

Social Program information, contact:Beth Reno (reno.ea@pg.com)

General Information, contact: Dan McLoughlin (mcloughlin@xavier.edu) & Roger Parker (Parker.r@fuse.net)

Important Dates for CERM:

Organize a Symposium - November 15, 2015

Call for Papers Opens - January 2, 2016

Registration Opens - January 15, 2016

http://www.acscerm2016.org/main/

National Meetings 2016:

251st ACS National Meeting & Exposition

March 13-17, 2016 San Diego, California

Program Theme: Computers in Chemistry

252nd ACS National Meeting & Exposition

August 21-25, 2016

Philadelphia, Pennsylvania

Program Theme: Chemistry of the People, by the People

and for the People

Other Regional 2015 Meetings:

Midwest (MWRM)

October 21-24 St. Louis, MO

http://mwrm2015.sites.acs.org/

Southeast/Southwest (SERM/SWRM)

November 4-7 Memphis, TN

http://www.2015sermacs-swrm.com/

Western (WRM)

November 6-8 San Marcos, CA

http://wrm2015.sites.acs.org/

CALENDAR OF EVENTS:

September Deadline for Teacher of 24

Chemistry Appreciation

September Registration

25

25

Deadline for applicantion for **Elected and Appointed** positions for the Local Section

ACS board

September

Deadline for K-12 entries into **Poetry Contest for National**

Chemistry Week Contact Linda Osborn, linda.osborn@hrglab.com

October 3

Celebrate Science Indiana

10 am - 5 pm

Indiana State Fairgrounds Contact Linda Osborn, linda.osborn@hrglab.com

November 7

National Chemistry Week

Celebration 10 am - 3 pm

Children's Museum of

Indianapolis

Contact Erin Dotlich, DotlichEM@Lilly.com by October 10 to Volunteer

Coming this Fall/Winter

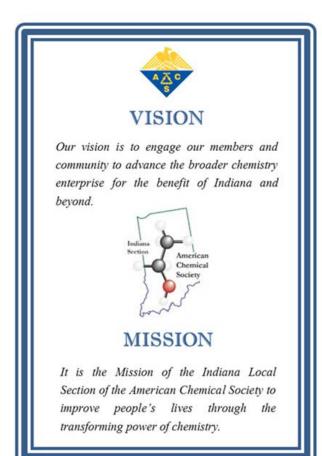
Stay tuned for a networking event hosted by the Local Section at one of the local breweries to discuss the Chemistry of Beer!

Date: TBD Time: TBD

November 15

Deadline for Symposium

organization at CERM



To submit corrections, information, events, stories or anything else, please contact Julie Holland at

ACSaccelerator@gmail.com.



Newsletter Editor and Design Julie Holland ACSaccelerator@gmail.com

Publicity Chair
Andrea Lindsay Frederick
frederick_andrea_lindsay@lilly.com

Section Chair Matt Gardlik matt@mattgardlik.com

Design
Andrea Moberly
andrea.moberly@hrqlab.com



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