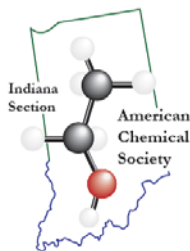


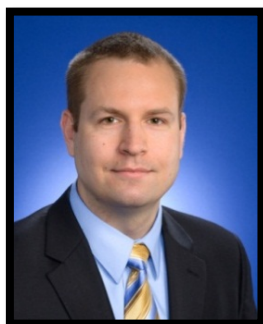
The Accelerator



INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY

DECEMBER, 2015

Chair's Corner BY MATT GARDLIK



As the year winds down, I'd like to wish everyone happy holidays and safe travels to those who will be traveling. The Local Section ACS has accomplished quite a bit this year from public and youth outreach events such as Celebrate Science

Indiana and National Chemistry Week to aligning our budget with our current income.

I'd like to specifically thank the Planning Committee for putting together a full slate of well-qualified candidates for our latest election. The Section continues to plan for its long-term success by engaging new and younger members with our Executive Committee. If you, or someone you know, would like to be become more involved with the Executive Committee, serve as a Committee Chair, or simply volunteer, please contact our incoming Chair, Linda Osborn, at linda.osborn@hrglab.com.

The following are the results from our latest election. Please welcome our incoming Executive Committee and Committee Chairs:



Your 2016 Executive Committee

Chair.....	Linda Osborn
Past-Chair.....	Matthew Gardlik
Chair-Elect.....	Ling Shi (Tom) Xiao
Councilors.....	Robert Pribush Brian Mathes Christina Bodurow Beth Lorsbach
Alternate Councilors.....	Robert Sammelson Amy DeBaillie Sibel Selcuk
Secretary.....	Tamiko Porter
Treasurer.....	Paul Ridenour
Member-at-Large.....	Paul Morgan Greg Smith Maria Alvim-Gaston

2016 Committee Chairs

Awards.....	Katherine Stickney
ACS Leadership Grant.....	Erin Dotlich
High School Chemistry Teacher...	Erica Posthuma-Adams
Newsletter Editor.....	Julie Holland
Newsletter Design.....	Julie Holland Andrea Moberly
Project Seed.....	Elmer Sanders
Project Seed II.....	Joshua Taylor
Webmaster.....	Matthew Gardlik

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
<u>2015 Committee Chair</u>	
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 Science:	Erica Posthuma-
	Adams
Webmaster:	Matt Gardlik

Chair's Corner: Indiana Section of the American Chemical Society 2016 Committee Results.....1**Volunteers Still Needed for the Local Section Board.....3****Call for Posters for Local Section Poster Session.....3****Speakers Needed for Local Section Events.....3****Leadership Workshop for Area Chemists.....4****Keeping Connected with Your Local Section.....4****Celebrate Science Indiana 2015 Rocks the Fairground.....5****Showing Appreciation for Our Chemistry Teachers.....6****Call for 2016 USNCO Exams.....7****The 2015 National Chemistry Week Event.....8****Kids in Chemistry.....10****Monthly Gathering: Let's Have a Cold One and Talk about Science11****Great Lakes Biotech Academy.....12****A Butler Tradition of Service.....13****Project Seed Students Earn Their First Publications14****Events Dates and Calendar of Events.....16**



Volunteers Still Needed for the Local Section Board

By Linda V. Osborn and Julie Holland

Want to get more involved with your Local Section? There are many ways you can do so, such as becoming a Chair for Minority Affairs, Younger Chemists, Senior Chemists or one of our other many Committees. This is a great way to network with other colleagues in the area, learn more about science related events in Indianapolis, boost your resume, develop leadership skills and have some fun with new friends.

To get involved with the Indiana Local Section ACS, please contact ACSaccelerator@gmail.com to discuss the possibility of joining our Local Section Board today.

We look forward to meeting you!

Call for Posters for Local Section Poster Session

By Tamiko Neal Porter

We are pleased to announce the **“Think Like a Molecule Poster Session”** which will be held on the campus of IUPUI on Thursday, February 25, 2016.

The poster session is a great opportunity for academia and industry to share their research with the rest of the scientific community and with

visiting high school and college students. **ALL** submissions received by the deadline of February 12 at 11:59pm **will be accepted** and scheduled for presentation.

For more information and to submit an abstract, visit our webpage at <http://indiana.sites.acs.org>

Speakers Needed for Local Section Events

By Amy C. DeBaillie

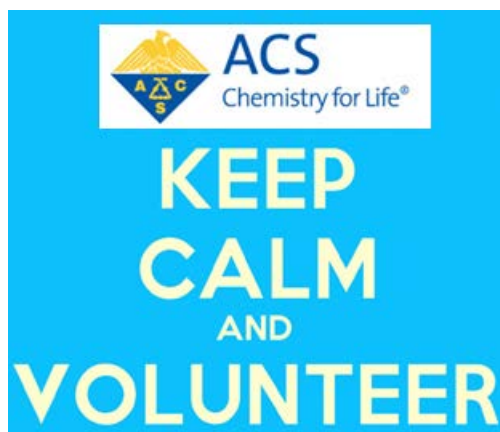
The Indiana Section is always looking for local talent who would like to serve as a speaker for Local Section events. If you are interested in serving as a speaker for a technical workshop or a Local Section event, please send an email to your local section Alternate Councilor, Amy DeBaillie at:

debaillie_amy_c@lilly.com

by January 15, 2016

Thank you in advance,

*The Local Section
Committee*



Leadership Workshop for Area Chemists

By Amy C. DeBaillie

Local Members, this workshop is for you! In the second quarter of 2016, the Local Section Executive Committee would like to host a 2 hour workshop focused on leadership by influence for members. 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 Jeannie Phillips. She is a technical professional and business coach with 17 years of experience in a corporate environment leading 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.

If you would be interested in attending this workshop or would like additional information, please send an email to your Local Section Alternate Councilor, Amy DeBaillie at debaillie_amy_c@lilly.com by January 15, 2016. **The date and time of the workshop will be confirmed based on your interest.**

Keeping Connected with Your Local Section

By Julie Holland

There are several ways you can stay connected to the Local Section ACS. In addition to this newsletter which is published quarterly, the Section also posts occasional email blasts regarding event deadlines and dates. Even though I have been part of the ACS for many years, I often ignored these emails since my inbox was often bombarded with other emails. After I finally started opening the blasts, I realized that **this Local Section is very active and really wants members to participate!**

The Local Section also has a website where you can find newly posted information and archives of the Accelerator. The website can be found at <http://indiana.sites.acs.org/>.

Finally, the Section has a Facebook page: <https://www.facebook.com/ACSINLocal>. Follow us to find out new information!

Celebrate Science Indiana 2015 Rocks the Fairgrounds

By Linda Osborn



Sarves Peri, Julie Holland, and Kendra Giza prepare the ACS booth for the day's activities.

On October 3, 2015, over **4,100 people** rocked the Blue Ribbon Pavilion at the Indiana State Fairgrounds for Indiana's premier science festival "Celebrate Science Indiana". Of the 70+ booths and activities present, the ACS Indiana Section was involved in Bronze level sponsorship of a booth led by Julie Holland with volunteers Kendra Giza, Tom Xiao, Sarves Peri, Maria Alvim-Gaston and Ana Gaston entertaining the crowds. Many other ACS members were involved with this celebration of science – requiring much dedication before, during, and after the event.

The hundreds of volunteers at this popular event allowed visitors to participate in experiments as diverse as pH measurement to actual cricket spitting. Dakota Huckaby with Monument Chemical single-handedly manned the Monument Booth, lighting up many children's faces as they experimented with a unique form of 'slime' making. At the ACS booth young and old alike created abstract art with food coloring and shaving cream. Perry Eyster and Chris Campbell noted the spark of awareness some of the middle schoolers displayed as they recounted their understanding of electrons and orbitals that gave the plasma ball its vivid colors. At the American Association of Chemistry Teachers booth, participants were able to stack colored liquids and take home their very own "Density Towers". Continuing the 'Chemistry Colors Our World' theme, another booth looked at the properties of surface tension and polarity by looking at food coloring in milk. The colors



Sarah Burris, Perry Eyster, and Chris Campbell break from setting up their booth to pose for a photo.

"danced" in the milk once the soap was added. "We had ages from really young children, to even adults who were participating", said Sarah Burris.



ChemLuminary Award held by Robert Yost, the Executive Director of Celebrate Science Indiana joined by the planning committee members. Top Row: Glen Cook (SEFI Executive Director), Joe Schwer, Kerm Yau, Tom Turpin, Keith Anliker, Larry Szernyk, Middle Row: Denise Slayback-Barry, Walter Jessen, Jeff Jones, Front Row: Nelson Shaffer, Robert Yost, Linda Osborn, and Kim Vogt.

At a national meeting in Boston on August 18, 2015, American Chemical Society President Diane Grob Schmidt presented a **ChemLuminary award** to the Indiana Section for assistance with Celebrate Science Indiana in recognition for extraordinary work in promoting chemistry and the chemical sciences. This was one of **three** ChemLuminaries that the Indiana Section was awarded this year.

Working with the people involved with Celebrate Science Indiana really makes me appreciate all of the talent involved in our community. We see “America’s Got Talent” on TV; but at this event, science is on center stage and the potential implications and influences of the talents in the building carry far greater consequences than the popular TV show.



Erica Posthuma-Adams, Amber Hankins, Vanessa Xiao and Larry Szernyk hanging out in the studio before the segment aired.

Speaking of TV, Erica Posthuma-Adams, Vanessa Xiao (daughter of Tom Xiao), Larry Szernyk, and Rick Crosslin helped to advertise the event on WISH TV 8 with Amber Hankins and Tracy Forner! While Erica and Vanessa were performing the Elephant Toothpaste experiment, Tracy asked Erica what's going to happen next and she said "Let's just see!" The catalyst was added and poof – even onto the jacket sleeve of Tracy! Thanks to all who have contributed. This award-winning festival is always on the first Saturday in October and provides hands on interactive activities for kids of all ages. Mark your calendars for Celebrate Science Indiana 2016 to be held on October 1 at the Indiana State Fairgrounds. Science abounds; it's fun to pass on the fever.

Showing Appreciation for Our Chemistry Teachers

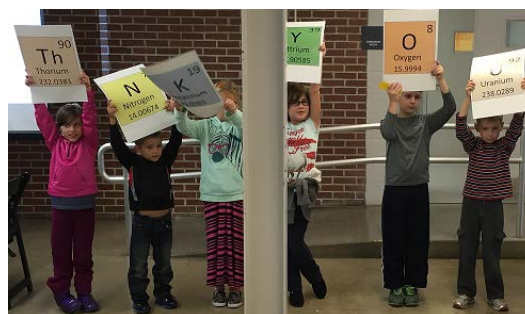
By Erica Posthuma-Adams

With the help of an Innovative Project Grant and the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, we celebrated our teachers of Chemistry at a special recognition luncheon at the state fair grounds on October 1. Twenty-six teachers attended the catered event to learn more about the new American Association of Chemistry Teachers (AACT). Dr. George Bodner of Purdue University was our keynote speaker and shared his experiences in the field of Chemical Education during his address. Teachers in attendance had a chance to network and share ideas while enjoying their lunch. The event concluded with a raffle where over \$4000 in

prizes was given away. The feedback from attendees was overwhelmingly positive. At least ten new (or newly renewed) members of AACT were enrolled after the event.



Erica Posthuma-Adams giving showing a demo for AACT at Celebrate Science Indiana



Call for 2016 USNCO Exams

By Bob Pribush

AMERICAN CHEMICAL SOCIETY 2016 INDIANA SECTION UNITED STATES NATIONAL CHEMISTRY OLYMPIAD EXAMINATION

Is your high school honoring their best chemistry students by sending them to participate in the 2016 American Chemical Society Indiana Section High School Scholarship Examination? The 2016 ACS Indiana Section High School Scholarship Examination reflects the Indiana Section ACS commitment to highlight the quality of Hoosier students by providing them with an opportunity to participate in the United States National Chemistry Olympiad (USNCO) competition.



The award structure is designed to honor top-scoring students from every school that sends at least three students to take the exam as well as overall top-scoring students in the First Year and Advanced Exams. The top three students in each exam will receive a recognition plaque and a \$100 cash award. Students who finish in the top 10% of those taking each exam will also receive recognition plaques.

The five top scoring schools in each exam will receive a team plaque and a one-year membership for one teacher in the American Association of Chemistry Teachers. Teachers receiving the membership can opt to apply the award as partial payment in the American Chemical Society.

Again, every school that sends at least three students to take the exam will be awarded a perpetual recognition plaque showing the name of the top-scoring student from that school.

The Local Section USNCO examination will be held at 8:30 on Saturday, March 19, 2016 at Brebeuf Jesuit Preparatory School. Eli Lilly research chemist, Dr. Jianping Huang, who has extensive experience competing and coaching at the international level, will administer the exam. In addition, Dr. Robert Pribush will add 43 years of university teaching experience to the effort. Recognition awards will be based on student performance on the 110-minute Local Section Chemistry Olympiad Examination written by the ACS Examinations Institute with some additional tie-breaking questions that are written by the doctors. Copies of Local Section Chemistry Olympiad Exams from previous years can be downloaded from the website:

<http://portal.acs.org>

Follow the path: Education > Students > High School > Chemistry Olympiad > Past Exams

The USNCO national screening exam will be held at Butler University on Saturday, April 9, 2016. Thirteen Indiana Section students with no more than two students from a single high school may take the USNCO national screening exam to attempt to qualify for participation in the Air Force Academy workshop at which the USNCO team is selected. The thirteen students will be selected from those taking the USNCO Local Section Exam plus the additional tie-breaking questions.

Of over 10,000 students who take the USNCO exams annually, each of the past six years the Indiana Section ACS has had at least one student finish in the top 20 and thus participate in the Air Force Academy camp with several other Indiana Section students finishing in the top 150. Three years ago an Indiana student, David Liang of Carmel High School, was one of the four students chosen for the USNCO team, and he won a gold

medal at the International Chemistry Olympiad that was held in Moscow, Russia.

This year each of the top 20 students will be presented with a medal from the American Chemical Society.

Please share with your students the excitement of competing for individual awards, school awards and the possibility of becoming a member of the United States National Chemistry Olympic team. Challenge your best students to participate in this year's Indiana Section High School Examination. Registration forms will be sent to all teachers who wish to honor their top-performing chemistry students. **Note that there is no limit to the number of students from a given school allowed to take the exams.** Hence, instead of nomination forms, registration forms will be sent to all teachers. Please contact Dr. Pribush to make sure that you are included in the mailing list.

**THE REGISTRATION DEADLINE
FOR THE 2016 USNCO IS
FEBRUARY 26th**

Robert A. Pribush, Ph.D.
Co-chair, Indiana Section USNCO
317-940-9406
rpribush@butler.edu

Jianping Huang
Co-chair, Indiana Section USNCO
317-433-1675
Huang_jianping@lilly.com

The 2015 National Chemistry Week Event

By Maria Alvin-Gaston



The American Chemical Society of Indiana sponsored the annual National Chemistry Week (NCW) celebration at the Children's Museum of Indianapolis on Saturday November 7, 2015. This year's celebration theme was **Chemistry Colors our World**.



The Indiana ACS kicked-off the 2015 NCW event with an award ceremony honoring K-12th grade student winners of the Illustrate Poem and T-shirt design contests. The Illustrate Poem contest received entries from students at six different schools in Indiana and poems were judged based

on grade categories resulting in seven talented winners. Britney Long created the winning T-shirt design and won a 1-year family membership to the Indianapolis Children's Museum, and the T-shirt with her design. The tie-dyed shirts were a big hit this year; perfect for the 2015 theme!

Illustrate Poem Contest Winners:

Name	Award	Category	School	Teacher	Prize
Rachel Moore	First Place	9th - 12th Grade	Avon HS	Lisa Kern	\$100
Alito Sosa	First Place	6th - 8th Grade	St. Joan of Arc	Cayley Coss	\$100
Matthew Osborn	First Place	3rd - 5th Grade	Maple Grove Elem	Ron Hobson	\$100
Ava Burton	First Place	K - 2nd Grade	Bridgeport Elem	Gayle Ketchem	\$100
Brooklynn Thorpe	Second Place	6th - 8th Grade	St. Joan of Arc	Cayley Coss	\$50
Macy Cline	Second Place	3rd - 5th Grade	Home School	Michele Cline	\$50
Venessa Xiao	Third Place	6th - 8th Grade	Park Tudor	Marilyn Weiss	\$25



There were amazing projects happening for guests throughout the Museum. Universities, non-profit organizations and local businesses with over 120 volunteers provided interactive scientific activities for children. The kids that participated in activities were included in a drawing that took place during the course of the day. Winners received prizes to motivate our youngsters to explore the fascinating world of chemistry including a science set that produces light, a hands-on slime making set which lets kids experience the science behind molecules, and experiment sets that give kids a

preview of basic chemistry including polymers, diffusion, reactions, and gas. Our outstanding Junior High volunteer, Ana Gaston, pictured above, oversaw the ACS booth, awarding prizes and other give-a-ways to the excited children.

At the Lilly Theater, Guy Hanson put on the show, "Chemistry is a Blast", demonstrating the fun and explosive nature of chemistry with three presentations during the day. Jaclyn Barrett with Brian Mathes and Kids in Chemistry taught our curious guests how to make Jiggle Jelly!



Mad Scientist Sam Wendel thrilled kids with hands-on science activities from the area of optical illusions, magnetism, air pressure, center of mass, discrepant events, electricity, density, and phase separation.

Larry Sernyk, Vanessa Xiao (pictured above), Michelle Wang and Victor Xiao, at the “You Be the Chemist” booth, taught our future scientists how to have fun with several hands on activities involving water absorbing polymers and magic sand.

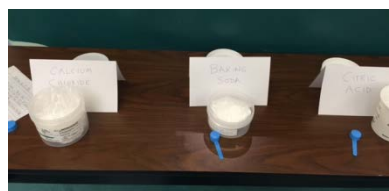
Kids and parents had fun while learning and engaging in all the booth activities. This year’s celebration of Chemistry Colors our World was attended by approximately 4000 museum visitors. The ACS Indiana Section, would like to extend our sincere “Thank you” to all volunteers, local organizations, educational institutions, to the Children’s Museum of Indianapolis, who help to make this event an outstanding science outreach to the community.



Kids in Chemistry

By Brian Mathes

The Indiana Section of the ACS has started off the 2015-16 school season with a revamped Kids and Chemistry Program at the Children's Museum. In early 2015, Brian Mathes and Jaclyn Barrett of the Indiana Section met with the science leaders at the Museum. The goal of this meeting was to see how the section could reinvigorate the Jiggle Jelly field trip program. The feedback from the Museum was that the attendance was down and perhaps a



couple of the reasons were that the program was around for a long time without changing and that we didn't clearly illustrate how the program related to Indiana's core curriculum. Additionally, the Museum was interested in expanding the age ranges that our programing covered.

The Indiana Section enlisted Guy Hansen from the Eli Lilly STEM Outreach program to help us

refresh the Jiggle Jelly program and asked his advice for what the Section could do to expand our outreach. He suggested that we could expand our programing using a "Reaction in a Bag" experiment. This is a fun experiment where the junior chemists use a ziplock bag as a chemical reactor and through using simple household chemicals, see how different chemicals react. Additionally, Guy helped the Section write up how these fun experiments relate to educational standards so teachers can better relate what we do in the lab to their classroom.

The revamped field trips have been run 4 times at the Museum and have been a



great success. Both the kids and the ACS volunteer instructors have had a great time. If you are interested in being a Kids and Chemistry volunteer, we would love to have you. Contact Brian Mathes at mathes@lilly.com for more info. Special thanks to Guy Hansen for all of his hard work to get this program refresh off the ground and running.

Monthly Gathering: Let's Have a Cold One and Talk about Science

Sponsored by the IUPUI School of Science & School of Science Alumni Association, **Science on Tap** is a monthly speaker series that aims to spark lively discussion about research in the School of Science. Topics range from laboratory collaborations in the life and health sciences to cutting-edge investigations in computer science.

The series will be hosted at Metazoa Brewing Co. which is located at 140 South College Avenue, Indianapolis. Attendance is free; however, attendees must be at least 21 years of age. Parking is available at the brewery. Registration and networking begin at 5:30 p.m. The presentation and Q&A begins at 6 p.m. and is followed by more networking.

Please register for the series by going to:

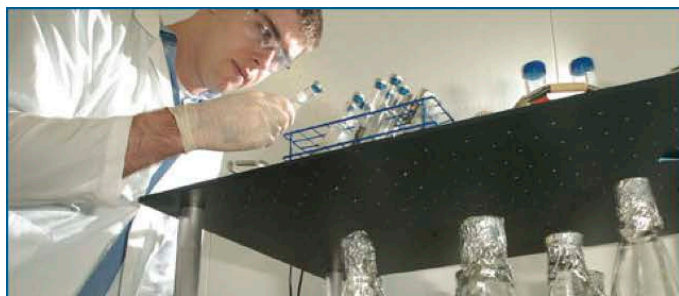
<http://science.iupui.edu/science-on-tap>

Date	Title	Speaker
Jan 21 2016 - 5:30pm	Science On Tap - Finding the Right Genes: Are You a Biological Witness?	Susan Walsh
Feb 18 2016 - 5:30pm	Science On Tap - A Healthy Heart: Get Active, Eat Better & See a Shrink?!	Jesse Stewart
Mar 17 2016 - 5:30pm	Science On Tap - Computer Science education: When It Doesn't Compute	Michele Roberts
Apr 21 2016 - 5:30pm	Science On Tap - Is it Cold in Here? Try Camping in Antarctica	Kathy Licht
May 19 2016 - 5:30pm	Science On Tap - Steve Presse, Assistant Professor, Physics, Chemistry	Steve Presse
Jun 16 2016 - 5:30pm	Science On Tap - Organizing a "Hoarders" house: Synaptic protein signaling in Parkinson disease	Anthony 'A.J.' Baucum



CHEERS!





The Great Lakes Biotech Academy is a new life sciences learning environment in downtown Indianapolis.

The Great Lakes Biotech Academy is a non-profit organization that educates the public about the promise of biotechnology and provides training and support to encourage bright young minds to enter the field. The Academy introduces motivated young people to the biotechnology industry via two educational programs: the Fellows Program and the Science Ambassadors Program.

The Fellows Program consists of an evening and weekend, semester-long series of lecture and laboratory sessions geared towards motivated students who want to pursue a career in biotechnology. The Science Ambassadors Program is a mentoring program where local students and Science Ambassadors, who are practicing scientists, work together on science and biotechnology projects. Through the Science Ambassadors Program, students in central Indiana will get supervised access to a modern biotechnology lab – making them more competitive in state and national science competitions, such as the International Genetically Engineered Machine (iGEM) Competition.

OUR MISSION

- To encourage motivated young people to pursue biotech careers by providing core skills training in the field
- To inform the public how biotechnology has the potential to transform society for the better

QUICK FACTS

- Academy educational programs are targeted towards seniors in high school
- Initial focus of the Academy is on industrial biotechnology and synthetic biology
- Major life science hubs, like the San Francisco Bay Area, have established biotech programs in many high schools

Great Lakes Biotech Academy is:

- an opportunity to *engage* and *impact* central Indiana's brightest young minds
- a semester-long introduction to modern biotech taught by *practicing scientists* in a *community lab space* targeted towards highly motivated young people
- located downtown next to the Indianapolis Central Library

CHEMISTRY is one of the foundational sciences upon which the biotech industry has been built. Concepts in chemistry will be central to the Academy's educational programs. The Great Lakes Biotech Academy is seeking volunteers with experience in science, engineering, or education that will help us accomplish our mission.

Volunteering and mentoring needs include:

- Helping build and improve the Fellows Program curriculum (Spring 2016)
- Teaching portions of the Fellows Program (Starting Summer 2016)
- Participating in social and fundraising events (Ongoing)
- Supervising and mentoring students in science competitions (Ongoing)

To learn more about the Great Lakes Biotech Academy and how you can participate, please visit www.greatlakesbiotech.org.

Great Lakes Biotech Academy
824 Meridian Street
Indianapolis, IN 46204

www.greatlakesbiotech.org

A Butler Tradition of Service

By Paul Morgan and Linda Osborn

If you visit the Butler website you will find the heading, ***“The Future Belongs to Those Who Do. We believe that discovering one's role in shaping our world is an ongoing mission that starts with the community around us.”*** How accurately that describes the many Bulldogs that we have encountered during several of the 2015 ACS events and prior.

“Chemistry in the Community” was a new course at Butler and was taught for the first time in the fall of 2015. The course challenged students to develop engaging demonstrations around chemical phenomena that had a “wow factor” to them. As the main audience for the presentations was to be children approximately 2-8th grades, major challenges to students enrolled in the course included choosing appropriate language and modes of interaction to maximize understanding and safety. The Butler students interacted with over 2000 individuals between Celebrate Science Indiana and Chemistry Day (our National Chemistry Week event). Two major enduring understandings that students were to take from the course were the personal satisfaction of performing community outreach/service and understanding the challenges of public presentations. Long term goals for the course are to build a base of chemistry professionals that work to engage the public's, particularly young people's, interest in chemistry and STEM and to support a community of scientists that use their skills to publicly advocate on behalf STEM issues.



Many Butler University Faculty members are involved in engaging students with local STEM events and organizations. The Chemistry Club, sponsored by instructor Adam Azman and director of chemical labs and stores Jo Wagoner sent a group of students to the Chemistry Day event at the Children's Museum of Indianapolis. The Chemistry Club contingent was accompanied by a second group from Butler University. Students from the Chemistry in the Community course at Butler University brought five interactive presentations to Chemistry Day as well.



This summer, a total of 59 participants, a large contingent from Butler University, attended a great night of baseball at

Victory Field. They enjoyed the break from school.

Butler has long maintained a tradition of involvement in the Indiana Section of the American Chemical Society and other STEM related organizations in central Indiana. Robert

Pribush has served as Councilor for the Indiana Local Section of the ACS since 1990 and in 2014 become the first Indiana representative to win the prestigious “ACS FELLOW” Award. Bob’s primary interest has consistently been in the chemical education of young students, especially those at the high school/college interface. He has had extensive service to multiple ACS National Committees. He chairs the Indiana Section Education Committee that is responsible for the Local Section scholarship exam, which also serves as the United States Chemistry Olympiad screening exam.

LuAnne McNulty, Associate Professor and Chemistry Department Chair, has also served in

the local section for many years. While searching through *Accelerator* archives, I found that the following Butler faculty has also served for the ACS, Indiana section: Scott A. Hocker, Keith M. Gligorich, and Michael Samide. Paul Morgan, an instructor in the chemistry department, will join the executive board as a member-at-large starting in January 2016 after completing a term as a member of the Science Education Foundation of Indiana board of directors.

“At other schools, this might be a lot to expect, but that’s just what Bulldogs do.”

Project Seed Students Earn Their First Publications

By Elmer Sands

Have you published lately? Project SEED high school interns co-author publications for *Analytical Chemistry* and the *Journal of Pharmaceutical and Biomedical Analysis*.

Project SEED students are blessed to have mentors generously give of their time and energy to design a project and host their summer internship. But the student-mentor relationship does not always end at the conclusion of the 8 weeks summer internship. It is very common for students to develop long term collaborative relationships with their mentors and this has certainly been the case for Kathryn McGhehey and Vishaal Mali, interns in the Indianapolis Project SEED program.

Based on their research together during the Project SEED internship, Lilly scientist Zhenqi ‘Pete’ Shi listed his 2014 intern Kathryn as one

of the co-authors for *On-line Monitoring of Blend Uniformity in Continuous Drug Product Manufacturing Process—The Impact of Powder Flow Rate and the Choice of Spectrometer: Dispersive vs. FT* to be published on the *Journal of Pharmaceutical and Biomedical Analysis*, January 2016.

<http://www.sciencedirect.com/science/article/pii/S0731708515302259>

Kathryn is now at Butler University studying Pharmacy. This summer Dr. Shi mentored another Project SEED student, Sarah Law. His 2013 student Stephan Mitchell is now at Yale.

Vishaal Mali was able to undertake the Project SEED internship in the summers after his sophomore and junior years with Dr. Lisa Jones from the IUPUI School of Science, Department of Chemistry and Chemical Biology. Only days after starting the internship, Dr. Jones noticed that Vishaal was asking her questions relating to some of her previous publications.

The positive impression was just a start a very productive partnerships between mentor and



Dr. Lisa Jones and intern Vishaal Mali, presenting research at the Project SEED STEMx Symposium, July 17, Indiana University School of Medicine.

student. Dr. Jones listed Vishaal as co-author in her research *In Cell Footprinting Coupled with Mass Spectrometry for the Structural Analysis of Proteins in Live Cells* that was published on the American Chemical Society's July 6 issue of *Analytical Chemistry*.

<http://pubs.acs.org/doi/abs/10.1021/acs.analchem.5b01888>

Vishaal is now a senior at Avon High School and with other publications in the works with Dr.

Jones, he will be listed as co-author on 3 publications by the time he graduates high school!

The Indianapolis Project SEED program is extremely grateful to the dozens of other mentors like Pete and Lisa who go the extra mile to give a hand up for the students we serve and place interns like Kathryn and Vishaal on a great path to accomplished careers in science.

Elmer Sanders, Program Coordinator,
Indianapolis Project SEED



Dr. Pete Shi and intern Kathryn McGhehey at the 2014 Project SEED Poster Session, Indiana University School of Medicine.

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

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National Meetings 2016:

251st ACS National Meeting & Exposition

March 13-17, 2016

San Diego, California

Program Theme: *Computers in Chemistry*



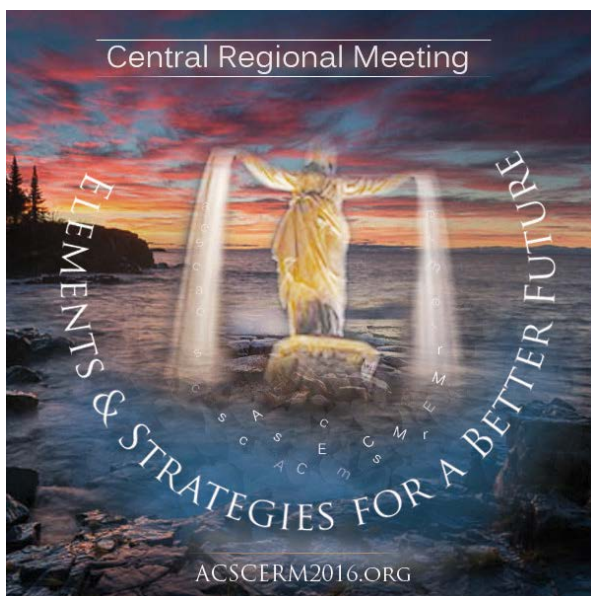
252nd ACS National Meeting & Exposition

August 21-25, 2016

Philadelphia, Pennsylvania

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

Peoples and for the People



Call for Papers Opens - January 2, 2016

Registration Opens - January 15, 2016

Meeting – May 18-21, 2016

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

Local Section Calendar of Events 2016

Leadership Institute - January 22-24, 2016

“Think like a molecule” Poster Session -
February 25, 2016

Deadline for USNCO registration – February,
26, 2016

USNCO Exam - March 19, 2016

Science Day – Ball State April 2016 (Date
TBD)

Awards Night at University of Indianapolis
(Schwitzer) May 10, 2016

Project SEED Poster Session July 21, 2016

Baseball Night July or August 2016 (Date
TBD)

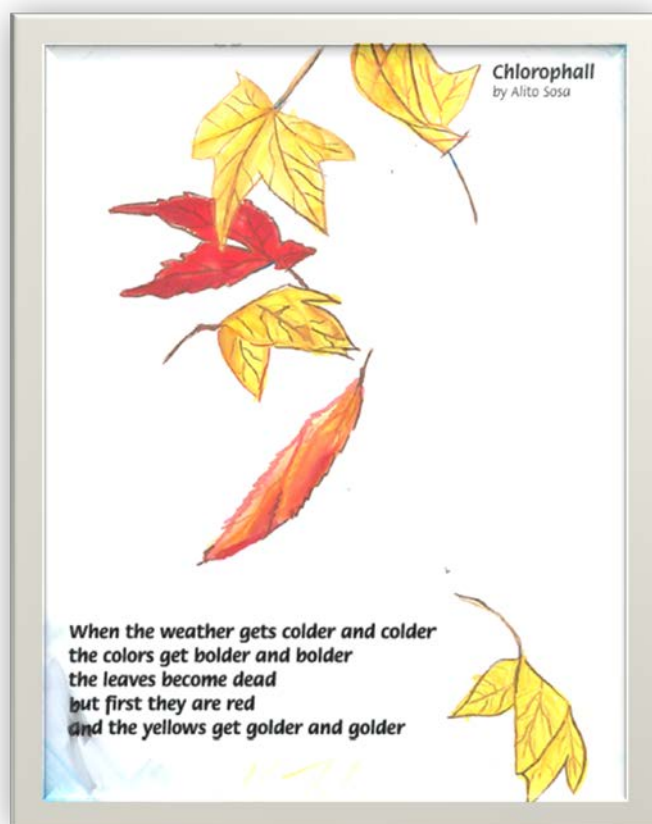
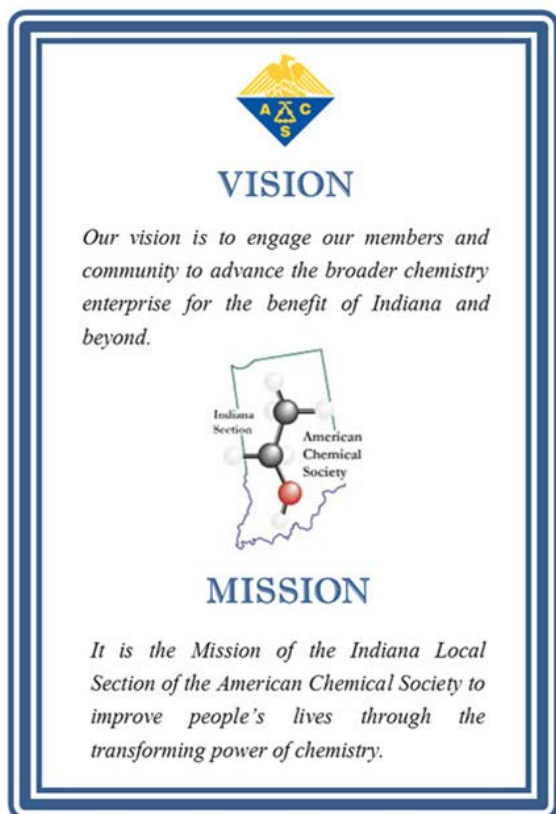
Celebrate Science Indiana - October 1, 2016

National Chemistry Week - Nov 5, 2016

Impress for Success – ACS & NOBCCHE - Nov
12, 2016

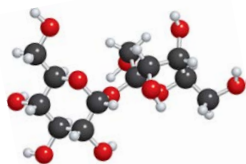
End of Year Volunteer Appreciation Event -
Dec 2016 (Date TBD)

Stay tuned to the Accelerator for more local
events!



The Members of the ACS Committee hope that our Local Members have a safe and happy holiday season!

ACS Illustrated Poem Contest Winner, Indiana LS
6th – 8th Grade
Alito Sosa, St. Joan of Arc, Cayley Coss



**Happy New Year
2016**