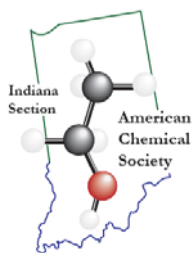


# The Accelerator

INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY

JUNE, 2015



## Chair's Corner BY MATT GARDLIK



On May 15, 2015 I received a letter from Diane Grob Schmidt. It is my pleasure to inform you that the Indiana Local Section has been selected as a finalist for the following:

1. **Outstanding Local Section Industry Event**  
Impress for Success: Workshop for Advancement of Minority STEM College and University Students
2. **Outstanding Local Section Career Program Award**  
Strategic Planning Day
3. **Best Activity or Program Stimulating Member Involvement**  
Vanishing Van Gogh by Greg Smith
4. **Outstanding Continuing Public Relations Program of a Local Section**  
Celebrate Science Indiana 2014
5. **Outstanding or Creative Local Section Younger Chemists Committee Event**  
Young Chemist Committee travel and present at Istanbul Turkey with EYCN
6. **Outstanding On-going NCW Event**  
National Chemistry Week (NCW)
7. **Best Overall Local Section Minority Affairs**  
Impress for Success: Workshop for Advancement of Minority STEM College and University Students



## 8. Outstanding U.S. National Chemistry Olympiad

Indiana Section ACS Scholarship/USNCO Local Section Exam

To be nominated for 8 ChemLuminaries is a phenomenal accomplishment for our section, indicative of the commitment and dedication of our great membership. Recipients will be announced and the presentation of awards will occur at the 250th ACS National Meeting in Boston, MA on Tuesday, August 18, at The Westin Copley Place Hotel. So if you can attend, please join the Indiana representatives. Our Local Section will also present a poster of our 2014 activities that led to their selection as a finalist. We'll keep you posted as to any winning categories by our section.



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-Viola Kimbowa****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-STILL NEEDS****VOLUNTEER!****High School-Erica Posthuma-Adams****Webmaster-Matthew Gardlik****IN THIS EDITION**

ARTICLE	Page	ARTICLE	Page
Chair's Corner	1	Project SEED Students Recognize Teacher Inspiration	9
Editor's Note	3	2015 Indiana Section ACS Scholarship/USNCO exam	10
Project Seed Poster Session	3	2015 ACS Awards Banquet	12
What's New in Science: at the Children's Museum: Jiggle Jelly and More	3	The Musical Saw	14
Member Spotlight: Dr. Beth Lorschach	4	ACS Indiana Local Section Coordinates K12 Chemistry Teacher Event to Show Appreciation and to Introduce AACT	15
Help a Science Teacher. Be a Science Coach	5	Techpoint Foundation for Youth: US 2020 Stem Mentoring Initiative	16
Spotlight on Wabash Brewing	6	Calendar of Events	18
Road Trip to Chicago: Gibbs Award Honoring Dr. John F. Hartwig	7		

## Editor's Note

Julie Holland

Once again, we would like to remind everyone that you may contribute articles of interest to the Accelerator. Please submit your requests for publication to

[ACSaccelerator@gmail.com](mailto:ACSaccelerator@gmail.com)

Also, follow us on Facebook for the latest news and events!

<https://www.facebook.com/ACSINLocal>

---

## Project SEED Poster Session, July 23

Elmer Sands

This year's Project SEED Poster Session will be held at the Indiana University School of Medicine Atrium of the Van Nuys Medical Sciences building. The Indianapolis Project SEED students will be presenting together with the Purdue and Indiana University Bloomington and other IUPUI Campus programs for high school students. Parking validations will be provided for guests. For directions and parking please see:

[www.indyprojectseed.com/ms.pdf](http://www.indyprojectseed.com/ms.pdf)



## What's New in Science at the Children's Museum: Jiggle Jelly and More

Brian Mathes

The Indiana Section is excited about new opportunities at the Children's Museum. The Indiana Section has been running a field trip class called "Jiggle Jelly" for years now with the help of the many volunteers in the Indiana Section, especially Jaclyn Barrett. This class is a hands-on experience where kids get to make their own "jiggle jelly" while learning about polymers and how they are made and used. Recently, the Indiana Section leadership met with folks from the Museum to discuss two opportunities. First, we decided to refresh the "Jiggle Jelly" class and make it even more appealing to young kids. Additionally, the Museum offered us the opportunity to expand to other age groups and topics. The Indiana Section gladly took on this opportunity and engaged Guy Hansen from the Indiana Science Initiative to help us design for these new opportunities. Guy brought in two new classes on "Chemical Reactions" and brightened up the "Jiggle Jelly" course. The new classes debuted on April 15 with much success.

The classes will start being offered regularly in the fall of 2015; however, we need two things from Indiana Section members: volunteers and attendees! To ensure the success of these classes:

1. Contact Brian Mathes, the new Chair of this outreach, at [mathes@lilly.com](mailto:mathes@lilly.com) to volunteer to come to the Museum for a morning or afternoon and moderate one of the classes. He will work with you to get the best time for your schedule.
2. Encourage your kids' teachers to sign up for these field trip classes. The more kids that see the courses the more impact our chemistry outreach will have.

Looking forward to a terrific 2015-16 school year at the Children's Museum.



## Dr. Beth Lorschbach

From Dow AgroScience release

In last month's edition, we mentioned Beth Lorschbach as a recent recipient of the ACS Rising Star Award. Here is a little more background on Dr. Lorschbach's contributions to Science.

**Dr. Beth Lorschbach** is the process chemistry leader for Actives to Products R&D with Dow AgroSciences. She has been with the Company since 1999. Beth is an expert in synthetic organic chemistry as well as agricultural molecule synthesis and scale-up. Throughout her career, she has contributed to the product pipeline by advancing new compounds. Beth co-led a fungicide project and guided the synthetic

and patent strategy of the team to identify a compound and championed it into development. Beth has a track record of driving and accelerating innovation to add value to Dow AgroSciences' R&D pipeline. Recently, she has been instrumental in development of synthetic chemical routes for the manufacture of numerous agrochemical products and intermediates. Beth has authored 24 patent applications, 12 external publications, and 15 national conference presentations. In 2009, Beth was recognized as a finalist for Indy's Best and Brightest Award. She holds a bachelor's degree in chemistry from Boston University and a Ph.D. in organic chemistry from the University of California, Davis.

"On behalf of the Women Chemists Committee, we want to congratulate the new group of Rising Star Award winners," said Amber Charlebois, WCC ACS Chair. "It's exceptional for three of the award winners to be from the same organization, so we want to extend special congratulations to Dow on the success of the three women recognized this year."

The Rising Star Award winners will be formally recognized at the 2015 ACS Spring National Meeting in Denver, Colorado.

## Help a Science Teacher. Be a Science Coach.

### ACS Science Coaches

Want to get involved with a local school? Help a science teacher in the classroom? Interact with students while doing demonstrations and labs? Do all these activities and more as an ACS Science Coach. Chemists who volunteer to assist one science teacher throughout a school year, Science Coaches provide support to local schools by enhancing science education. They may perform a Jack-of-all-trades role, but most Science Coaches help teachers by answering tough chemistry questions, advising students on careers in chemistry, assisting during science labs, or giving chemical safety tips. The requirements to become a Science Coach is easy: Commit to six, 1-hour teacher visits over the course of a year; be a current or retired professional chemist, graduate student, or postdoctoral scholar; and possess a passion for inspiring future generations of chemists. Find out more here about ACS Science Coaches:

<http://www.acs.org/content/acs/en/education/outreach/science-coaches.html>



Enrollment for the 2015-16 school year is now open. Applications are accepted on a rolling basis until October 30, 2015.

## **The Indiana Section of the ACS presents...**

### **Indians Baseball Night Part XIV**

Indians play Toledo Mudhens

August 11<sup>th</sup> at 7 PM Game  
Time!!!!

Victory Field \$10

Chemistry/Baseball Trivia  
Giveaways!!!

**SPECIAL PRICING FOR YCC and  
STUDENT MEMBERS - \$5 per  
ticket**

**Please RSVP to Brian Mathes at  
[mathes@lilly.com](mailto:mathes@lilly.com)**

**Or 277-7720 by Aug 6<sup>th</sup>**

Tickets will be handed out at the 3rd base gate before the game starts





## Spotlight on Wabash Brewing

*By Julie Holland*

There's a new brewery in town owned and operated by local chemists Dr. Matt Kriech and Dr. Damon Carl: Wabash Brewing.

Long-time friends, the two decided on the name Wabash for several reasons. In addition to earning their undergraduate degrees from Wabash College, the Wabash River has played a major role in Indiana history. Several of the beer names have references to the Wabash including Waapaahsiiki Blonde which is named after the Miami Native American Indians who once settled along the river, and the 503 Amber which is the length of the river.

The brewery also offers and an expanded lineup that includes: Cannonball Pale Ale, Not Our Porter, BaconFace Brown Ale (a House Favorite), Hippiess Return IPA, Bull Island Black IPA, Mugga Cherry Smash (Blonde), Rocket Ryde RyePA (another House Favorite), Rocket Re-Entry Session IPA, Oktobersteam, HoneyDo Honey Amber and various development batches.

Focusing on small batch, high quality beer, the chemists spent over 2 years researching flavor profiles and working on accuracy and consistency. Although they acknowledge the artistry of beer, they believe science also plays a pivotal role in the brewing process. Combining their

love of beer and chemistry, they used their knowledge of developing chemical processes to systematically fine-tune their craft offerings. In addition, they are currently using analytical chemistry to analyze their products. So far this includes yeast counting and UV-Vis. In the near future, it will also include GC-FID and GC/MS.



Wabash Brewing Taproom and Brewery is located at 5328 West 79<sup>th</sup> Street on the northwest side of Indianapolis near Park 100. The brewery offers local patrons a place to gather for a pint, converse, and network after work or on weekends. The owners feel that beer can serve a common ground to bring different people and communities together.

The taproom offers shuffleboard and free Wi-Fi. The brewery frequently hosts food trucks though out the week and on weekends.

In addition to the vast array of beers offered by Wabash Brewing, they will also work with patrons to develop 5-45 gallon custom beers. So far, the brewers have made custom beers for weddings,

showers, and birthdays giving these events a special touch.

### Hours of Operation:

Tuesday 3 - 8 PM

Wednesday 3 - 8 PM

Thursday 3 - 9 PM

Friday 2 - 10 PM

Saturday 12 - 10 PM

Closed Sunday & Monday

Follow Wabash Brewing on Facebook

<https://www.facebook.com/wabashbrewingllc>, Twitter

<https://twitter.com/wabashbrewing> or check out their

website: <http://www.wabashbrew.com>



---

## Road Trip to Chicago: Gibbs Award Honoring Dr. John F. Hartwig

*By Julie Holland*

On May 15, 2015, the Chicago Section of the ACS honored Dr. John Hartwig with The Gibbs Medal Award for outstanding innovation for his work with transition metal catalysis. The Willard Gibbs Award

was started in 1911 to "publicly recognize eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better."<sup>1</sup>

The evening began with a cocktail hour where the 70 attendees enjoyed appetizers and chatted among friends and colleagues. Next, a wonderful sit down dinner was served followed by the introduction of the keynote speaker by Inessa Miller, Chair of the Chicago Section.

Dr. Hartwig gave an hour long presentation on the new innovations in transition metal catalysis that his research group has been studying. These include palladium-catalyzed synthesis of arylamines, aryl sulfides, and aryl ethers, along with reactions to prepare alpha aryl carbonyl compounds and for olefin hydroamination. The research group works with rhodium and iridium catalysts to functionalize alkyl and aryl C-H bonds and iridium to form selective allylic aminations and etherifications,

The group is also studying nickel catalysts for hydrogenolysis of C-O bonds of aryl ethers without cleaving the C-O bonds which could provide a way to break down C-O bonds from renewable resources such as the lignin portion of lignocellulosic biomass.

In addition, they are studying combination organometallic catalysts in conjunction with metalloenzymes and using high throughput discovery to evaluate C-C and C-N bond formations.



From left to right: ACS President Diane Grob Schmidt, Dr. John F. Hartwig, Chicago ACS Chair Inessa Miller

On a personal note, Dr. Hartwig told the group that his father-in-law, Harold Clayton Urey, received the Gibbs Medal Award in 1934 along with a Nobel Prize for discovering deuterium.

Dr. Hartwig received his Ph.D. from the University of California, Berkeley in 1990. He is currently the Henry Rapoport Chair in Organic Chemistry and a Senior Faculty Scientist at Berkeley. He has been published more than 650 times and has written the textbook *Organotransitional Metal Chemistry: From Bonding to Catalysis* (University Science, 2009). He is well known in the field for

the development of the Buchwald-Hartwig amination.

I thoroughly enjoyed my evening attending the event and the Chicago Section of the ACS was very happy to receive a visitor from another section. It was a great learning experience and I plan to look more in-depth into Dr. Hartwig's research. It was also wonderful that events such as these are very informative for a very nominal fee which included a dinner and drinks. I plan to keep an eye on what the Chicago Section offers in terms of educational evenings such as the Gibbs Award in the future.

For more information on Dr. Hartwig's research, please visit the U.C. Berkeley page:

<http://www.cchem.berkeley.edu/jfhgrp/index.html>

<sup>1</sup><http://www.acs.org/content/acs/en/funding-and-awards/awards/acs-local-section-awards/awards-chicago-local-section/willard-gibbs-medal-award.html>

---

## Regional Meetings

### 2015

- **Southeast/Southwest**

Nov. 4-7  
Memphis, TN

- **Northeast**

June 10-13  
Ithaca, NY

- **Midwest**

Oct. 21-24  
St. Joseph, MO

- **Western**

Nov. 6-8  
San Marcos, CA



## Project SEED Students Recognize Teacher Inspiration

By Linda Osborn

In the spirit of recognizing k-12 teachers, and having them more involved in our programs, Elmer Sanders asked the 2015 Project SEED students to tell us about the teacher who most inspired them as future scientists.

The writing prompt provided data for what most of us know – there are great teachers in our community! The responses were inspiring in themselves as they listed numerous great attributes. These teachers will all be recognized at the inaugural *Project SEED STEMx* event on Friday July 17 at the Walther Hall auditorium of the Indiana University School of Medicine.

One of these inspiring teachers to be recognized is ACS Indiana Section member and high school chemistry teacher, Erica Posthuma-Adams. Her student, Natalie Murdock has agreed to share her assignment script for publication. Congratulations Erica!

For more details, visit

[www.indyprojectstem.org/stemx.pdf](http://www.indyprojectstem.org/stemx.pdf)

### member-get-a-member

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



*Erica Posthuma-Adams*

*I was inspired by Mrs. Adams to become invested in science because she made AP Chemistry enjoyable and intriguing. Though that class was a challenge for me, as she helped me through the class and showed me how to study this specific material and persevere, she helped me believe that it indeed is possible. It was very cool to see a woman that had a great standing in many science committees and have a family. She's very inspiring, and is a great teacher. So it was great to be exposed to her this year and learn from her.*

*Mrs. Adams is very committed to her job. Above all, even when she gets stressed and frustrated, she still does her best to be the greatest teacher she can be for the students. Commitment to excellence is actually a value my school stands on, and is promoted constantly. So I think the key quality I would love all teachers to have is their commitment to being their best for their students. This makes school a lot more worth it, and makes me want to be committed to doing my best just as much as she is committed to doing her best as a teacher for me.*

*-Natalie*

## 2015 Indiana Section ACS Scholarship/USNCO exam

BY ROBERT PRIBUSH

This year, the 2015 Indiana Section ACS USNCO Exam was held at Brebeuf Jesuit Preparatory School on Saturday, March 28, 2015. There were a total of 245 students who took the exam. A total of 158 students took the first year exam scoring an average of 24/60 and 87 students took the advanced exam scoring an average of 32/60.

Students who scored high on the exam were invited to participate in the second phase of the USNCO competition, which was a written exam plus a practical laboratory exam held at Butler University on Saturday, April 18, 2015. The goal was to qualify Hoosier students for the three-week USNCO camp at the United States Air Force Academy from which the USNCO team will be chosen.

The results of the first test are as follows:

### First Year Exam

1<sup>st</sup> place – \$100 and plaque: Allen Zhao (Park Tudor)

2<sup>nd</sup> place – \$100 and plaque: Ayon Mitra (Carmel)

3<sup>rd</sup> place – \$100 and plaque: Allen Zhang (Carmel)

Honorable mentions: Chelsea Dai (Carmel), Nathan Fei (Carmel), Bharat Gummalla (Carmel), Katie Long (Carmel), Abhinav Ramkumar (Carmel), Aakash Roy (Carmel), Xuchen Wei (Carmel), Kendall Garner (Park Tudor), Siddhartha Peri (Park Tudor), Hannah Resnick (Park Tudor), Michelle Shen (Park Tudor), Michelle Zhu (Park Tudor), Evan Wang (Zionsville)

### Team Award – AACT membership and plaque

1<sup>st</sup> place (tie) Carmel and Park Tudor

3<sup>rd</sup> place Zionsville

4<sup>th</sup> place Fishers

5<sup>th</sup> place Avon



### Advanced Exam

1<sup>st</sup> place – \$100 and plaque Asim Dhungana (Carmel)

2<sup>nd</sup> place (tie) – \$100 and plaque Miles Dai (Carmel)

2<sup>nd</sup> place (tie) – \$100 and plaque Ryan Jou (Carmel)

2<sup>nd</sup> place (tie) – \$100 and plaque Brendan Yap (Carmel)

Honorable mention – plaques: Chrishan Fernando (Carmel), Michael Li (Carmel), Aaron Shi (Carmel), Michael Wang (Carmel), Alan Jiang (Lawrence Central)

### Team Award – AACT membership and plaque

1 <sup>st</sup> place - Carmel	4 <sup>th</sup> place - University
2 <sup>nd</sup> place - Richmond	5 <sup>th</sup> place - Indiana Academy
3 <sup>rd</sup> place - Zionsville	

### Perpetual Plaque Awards:

Avon - Andrew Brown	Lawrence Central - Alan Jiang
Brebeuf - Jacquelyn Knobelsdorf	North Central - Meena Moorthy
Carmel - Asim Dhungana	Park Tudor - Allan Zhao
Chatard - Thomas Hirschfeld	Richmond - Ethan Kincaid
Fishers - Halie Szilagyi	University - Sylvia Huang
Indiana Academy - Craig Sheehan	Waldron - Jeremy Kuhn
Knightstown - Alexis Madison	Zionsville - Evan Wang
- Julie Vaughan	

### Students Who Qualified for the National USNCO Exam

Andrew Brown (Avon)	Michelle Shen (Park Tudor)
*Adit Chandra (Carmel)	Allan Zhao (Park Tudor)
Miles Dai (Carmel)	Jesse Grace (Richmond)
Brendan Yap (Carmel)	Ethan Kincaid (Richmond)
*Willie Zhu (Carmel)	Evan Vesper (University)
Halie Szilagyi - (Fishers)	Yuelin Deng (Zionsville)
Alan Jiang (Lawrence Central)	Evan Wang (Zionsville)
*Students automatically qualifying on the basis of their scoring in the top 20 nationally in 2014.	

Of 10,000 students who took the USNCO Local Section Exam, approximately 1000 take the National USNCO Exam, including 13 from the Indiana Section. Of those 13 Indiana Section students, one finished in the top 20, one finished in the top 50, and two finished in the top 142. Receiving National recognition were

USNCO Top 20 - Miles Dai (Carmel)  
 USNCO Top 50 – Brendan Yap (Carmel)  
 USNCO Top 142 – Adit Chandra (Carmel) & Allan Zhao (Park Tudor)

Miles Dai attended the USNCO United State Air Force Academy camp in an attempt to become one the four students chosen for the USNCO team that will compete in the 47th International Chemistry Olympiad in Baku, Azerbaijan. This marks the fifth year in a row that the Indiana Section has had at least one student finish in the top 20.

*Congratulations to everyone who participated in the USNCO exam!*

## 2015 ACS Awards Banquet



The University of Indianapolis hosted the 2015 Central Indiana ACS Awards Banquet on May 7, which commenced with a keynote address by Seth Reasoner, an ACS Project SEED alumnus and current Berea College student. Seth spoke on how support from ACS has shaped his future career goals and aspirations.

After dinner, the awards presentations recognized several groups of people from our central Indiana local ACS section, including our distinguished ACS 50- and 70-year members, professional chemists in our section who received national ACS awards, high school students and their chemistry teachers who excelled in our local individual and school competitions, and those students who qualified for and competed at the national level in the U. S. National Chemistry Olympiad. Recent results from the U.S. National Chemistry Olympiad showed several of our section's students receiving national accolades, including:

USNCO Top 20 – Miles Dai, Carmel High School

USNCO Top 50 – Brendan Yap, Carmel High School

USNCO Top 140 – Adit Chandra, Carmel High School and Allan Zhao, Park Tudor School.

A young 5<sup>th</sup> grade student, Vanessa Xiao, was also recognized for earning statewide recognition in the "You Be the Chemist"

challenge. Vanessa won our Indiana state champion and advanced to the National Challenge in Philadelphia. Her mentor, Marilyn Weiss from Park Tudor, and her father, Tom Xiao, a member-at-large on the executive committee of the Indiana ACS, were also recognized on stage. Even though a PhD chemist at Eli Lilly, Tom said that his daughter was asking him questions that he could not readily answer!

Although none of them could attend the ceremony, our long-term ACS members that were recognized included the 50-year members:

Mr. Michael Aronson	Dr. David Nurok
Mr. Michael Chaney	Dr. Edward Sowers
Dr. Douglas Dorman	Dr. Bruce Storhoff
Dr. Charles Jones	Mr. James Streator
Mr. Kenneth Kimmerle	Dr. Richard Swain

Along with one 70-year member:

Dr. Park Wiseman.

Other ACS members that were recognized included Dr. Beth Lorschach (Dow AgroSciences) for receiving a national Rising Star Award, Erin Dotlich (Eli Lilly & Co.-Elanco), Past Chair of our Central Indiana ACS section, Sibel Selcuk (Heritage Research Group), ACS Outstanding Volunteer of the Year, and Viola Sanyu Kimbowa (Eli Lilly & Co.), 5-year organizer of our National Chemistry Week program.

The well-attended banquet brought together people of all ages and experience levels in chemistry, and gave our section's high-achieving young scientists a firsthand look at how the ACS could shape lives and careers for future success. Mark your calendars for next year's event: Tuesday,



May 10, 2016!



Dr. Beth Lorschbach, Rising Star Award



Dr. Sibel Selcuk, ACS Outstanding  
Volunteer of the Year



Erin, Dotlich, Past Chair Award



Viola Sanyu Kimbowa, NCW Chair, 5-year  
pin



Dr. Kathy Stickney, Master of Ceremonies



2015 ACS Awards Program Recipients and  
Mentors

## The Musical Saw

By Ernest G. Barr



*Ernest G. Barr has been a member of the ACS for over 60 years and is currently a member of the Indianapolis Local Section. He*

*spent his entire career of 37 years at Eli Lilly and Company, the majority of that time in Quality Assurance. He played the saw for the entertainment of groups for about 25 years. His current interests are in digital photography, classical music and reading.*

For Christmas in 1942, my mother bought a Christmas gift for my father -- a Musical Saw! My first recollections of the saw, at about age 16, were of my dad practicing his new instrument. The sounds that emanated from the kitchen meant he had built fires in the cook stove and the heater in the living room of our home in Myrtle Point, OR, and the "noise" became the "alarm clock" signaling that my two brothers and I should get up and begin the day.

In 1951, my father died and the saw came to me. Some years later my teen-aged daughter made a cloth case for the saw, with a pocket for the bow and rosin. Eventually, I was sufficiently intrigued by the saw that I took it up and learned to make the squawky noises so characteristic of those early years. In due time, those rude noises became recognizable tunes.

I remembered how my dad held the saw with the handle between his knees and bent the saw blade in an "S" shape. To change the pitch, he bent the saw blade further down or relaxed it upwards, while stroking with the bow to play some folk songs or hymns. I also learned that by holding the saw between my knees and "bouncing" my right leg I could make a vibrato that helped cover some problems with intonation and made the sounds much more pleasing.

I practiced diligently and in time became sufficiently adept that I was invited to play "special music" for church. The acceptability of the music and the novelty caused some of my friends to talk and eventually a local television station in Indianapolis asked to come to our church one Sunday morning and record my contribution. In due time several churches and other organizations called for me to play at some informal occasions. Later the same TV station invited me to play live from the studio. I was also recorded by that station in my home for a 24-minute segment of the program "Across Indiana" and was given a VHS tape of the event, which I had transferred to a DVD.

The saw is played by bending it in an "S" shape and stroking at the node with a well-rosined inexpensive violin bow. The main thing to be noted in the photo is that the bow must stroke the saw blade at the node (the area between the curves of the saw blade).

*Editor's note: we are always interested in hearing about ACS members who play instruments, especially unusual ones.*



## ACS Indiana Local Section Coordinates K12 Chemistry Teacher Event to Show Appreciation and to Introduce AACT

*By Erica Adams and Linda Osborn*

Epic chemistry teachers are why the ACS exists. Without their inspiration and perspiration, we would not be where we are today. Our local section is sponsoring an event to thank them; but they get to plan it. Erica Posthuma-Adams is chairing a team of fellow teachers: Anna Deripaska (not pictured), (L to R) Robin Esteb, Linda Osborn (industry), Georgia Watson, Erica Adams (chair), Jeremy Horner, and Ronella Moore. Targeted for October, many ideas have been discussed.



In addition to showing our appreciation to K-12 teachers of chemistry, we will be promoting the newly formed American Association of Chemistry Teachers (AACT).

Sponsored by the American Chemical Society and NOBCChE, this special event is tentatively planned for October 3, 2015 to be held in conjunction with Celebrate Science Indiana! While we are still working

out the details, the plan is to have an AACT booth at the CSI event where we can show teachers some of the resources provided by AACT. We will be running demos and providing teachers with detailed lesson plans which have been designed, organized, and vetted by the staff at AACT. Either a luncheon at the CSI event at the state fairgrounds or a gathering at a nearby brewery afterwards, there will be a special opportunity for teachers of chemistry to network in appreciation for their societal contributions. Each teacher will receive a gift bag and a chance to win many door prizes. We may even be able to have a special guest speaker at the event.

If you know of a K-12 teacher of chemistry that should be recognized, please provide contact information to [eadams@universityhighschool.org](mailto:eadams@universityhighschool.org).

Currently we are seeking volunteers to help with different aspects of this endeavor. We need teachers to volunteer to work our booth at the CSI event. We also need help spreading the word about the event and inviting teachers from all the local school districts - we would like one teacher from each district to be a liaison between our committee and their elementary, middle, and high school teachers. This person will help to distribute information and report back to the committee.

The volunteers will be put in a drawing to receive one of ten free memberships (or renewals) into AACT.







"Creating a climate that is attractive for businesses to retain, create, or relocate jobs to our city is dependent upon our ability to supply the skilled workers employers demand," said City of Indianapolis Mayor Gregory A. Ballard.

"Workforce development is a priority for Indianapolis, and we are extremely proud to be a part of the city's winning US2020 project. It is imperative that our students receive innovative and effective STEM education and mentoring experiences."



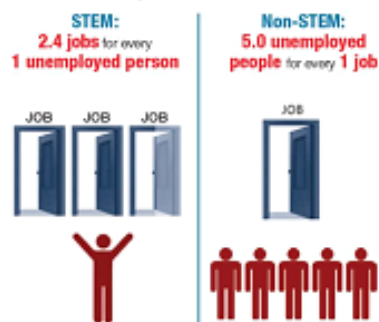
## TechPoint Foundation for Youth City of Indianapolis

### US2020 STEM Mentoring Initiative

#### ABOUT US2020:

##### STEM SKILLS ARE IN DEMAND

In Indiana, STEM skills have stayed in demand even through the economic downturn.



US2020 is a new organization developed from a White House call to generate large-scale, innovative solutions to our STEM education challenge, with a focus on increasing access to STEM careers for girls, underrepresented minorities, and low-income children. Announced by President Obama at the 2013 National Science Fair, US2020 will match 1 million STEM mentors with students at youth-serving organizations and schools by the year 2020.

The US2020 City Competition challenged communities to develop plans to dramatically increase the scale and quality of mentorship and corporate citizenship. 52 cities applied to lead this mentoring movement, 7 were selected – Indianapolis was one of them.

#### INDIANA'S STRATEGY:

Kicked off in August of 2014, TechPoint Foundation for Youth (TPF4Y), serving as the Guiding Coalition lead for the City of Indianapolis plan, has engaged more than 40 corporate, university, school and youth-serving organizations to develop, implement and grow this



comprehensive mentoring program, first in Indianapolis, then moving statewide by 2018. With support from the Corporation for National and Community Service, TPF4Y has committed 4 fulltime staff to this crucial workforce challenge. Utilizing the state-of-the-art mentor-matching portal developed by US2020, TPF4Y will work to create seamless connections between the supply of interested STEM mentors and students in demand.

To learn more visit [www.TechPointYouth.org](http://www.TechPointYouth.org) or email [info@TechPointYouth.org](mailto:info@TechPointYouth.org).





## Calendar of Events:

July 23	Indianapolis Project Seed Poster Session 4-6 pm VanNuys Medical Science Building atrium IU School of Medicine Atrium Contact Elmer Sanders, <a href="mailto:elmersanders@yahoo.com">elmersanders@yahoo.com</a>
August 11	Indians Baseball Night Part XIV 7 pm, Victory Field Admission - \$10 Conact Brian Mathes, <a href="mailto:mathes@lilly.com">mathes@lilly.com</a> or 277-7720 -
October 3	Celebrate Science Indiana 10 am – 5 pm Indiana State Fairgrounds Contact Linda Osborn, <a href="mailto:linda.osborn@hrglab.com">linda.osborn@hrglab.com</a>
November 1	Nation Chemistry Week Celebration 10 am – 3 pm Children's Museum of Indianapolis Contace Viola Kimbowa-Radlovic, <a href="mailto:kimbowavi@lilly.com">kimbowavi@lilly.com</a>
Coming this Fall	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

**FREE • FAMILY • FUN**  
**OCTOBER 3, 2015**  
**9:30 AM - 5:30 PM**

**CELEBRATE  
SCIENCE  
INDIANA®**



**INDIANA STATE FAIRGROUNDS  
BLUE RIBBON PAVILION**  
[www.celebratescienceindiana.org](http://www.celebratescienceindiana.org)

Experience science at over 50 exhibitor booths  
from Universities, Corporations, Government Agencies, NASA



**SEE HOW FAR YOU CAN  
SPIT A CRICKET**  
**TAKE A RIDE IN THE  
EARTHQUAKE COTTAGE**

SPONSORED IN PART BY:

   **Dow AgroSciences**



**Newsletter Editor and Design**

Julie Holland

[ACSaccelerator@gmail.com](mailto:ACSaccelerator@gmail.com)**Publicity Chair**

Andrea Lindsay Frederick

[frederick\\_andrea\\_lindsay@lilly.com](mailto:frederick_andrea_lindsay@lilly.com)**Section Chair**

Matt Gardlik

[matt@mattgardlik.com](mailto:matt@mattgardlik.com)**Design**

Linda Osborn

[linda.osborn@hrqlab.com](mailto:linda.osborn@hrqlab.com)

and Andrea Moberly

[andrea.moberly@hrqlab.com](mailto:andrea.moberly@hrqlab.com)

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.