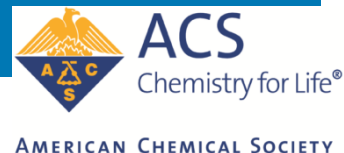
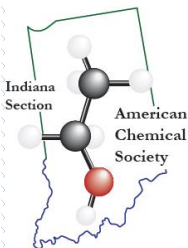


# The Accelerator

INDIANA SECTION OF THE AMERICAN CHEMICAL SOCIETY



APRIL 2019

## Chair's Corner *by Tamiko Porter*



I'd like to start off my first Chair's Corner by thanking the past chair, Lisa Buchholz, for her service. She did a wonderful job steering the executive board and was a great resource for me as we transitioned to the new year. A personal highlight from last year was working with her and those on the sub-committee to plan the Chemistry for Life networking session at the Annual Biomedical Research Conference for Minority Students. It was a joy having a hand in connecting young chemists with professionals in academia and industry.

This is just one of the ten well-received events that we submitted for ChemLuminary nominations (listed below). It's clear that 2018 was a banner year for the section.

Transitioning into thoughts about 2019, I have to say that I am very excited for what we've already done and for what we have in store. We had two excellent events in January and February. Those were the "No Belles" performance at the University of Indianapolis and a lecture on sustainability by Dr. Ken Miller at Heritage. In March, the Local Section hosted a booth during "Passport to Hi Tech" at Conner Prairie. The month will wrap up on a high note with the USNCO LS exam and the SEFI Hoosier Science and Engineering Fair. Other events on the horizon include Awards night, Baseball Night and NCW Chemistry Day to name a few. The Chair's Corner, the website and social media, and future issues of the Accelerator will highlight all section activities.

This is also a year of celebration as chemists worldwide celebrate the 150th year of the periodic table. We'd love to see how everyone in our section is recognizing this monumental occasion. Please share pictures and details to our social media and email accounts. The party will continue into 2020 as it will be Indiana University's Bicentennial. The Local Section already is making plans on being involved in this celebration on including the and will be sharing more information in the future.

I appreciate the opportunity to serve as chair and to work with the executive committee. One goal I have for the section is to increase our outreach to all members. I'd particularly like to see the section engage more with members from outside the Indianapolis metro area and student affiliates. I hope to start by meeting many of you at our upcoming events and at the Central Regional Meeting in June. Thanks!

## ChemLuminary Award Nominations for 2018

Event	Category
<b>Advocating for Science, how to talk with your elected officials</b>	ACS President's Award for Local Section Government Affairs
<b>Central Elementary Science Day, Chemistry is Radical</b>	Best Ongoing Senior Activity in a Local Section that Benefits the Community, Local Schools, or Legislative Government
<b>Peter Banks Music &amp; Chemistry Part II</b>	Most Innovative New Activity or Program
<b>Celebrate Science Indiana</b>	Local Section Partnership Award
<b>Local Section and National Chemistry Olympiad (USNCO) Exams</b>	Outstanding U.S. National Chemistry Olympiad
<b>The Chemistry of Cheese</b>	Outstanding Continuing Public Relations Program of a Local Section
<b>Chemistry for Life at the Annual Biomedical Research Conference for Minority Stu</b>	Outstanding Leadership Development Program
<b>Ignite Your Superpower</b>	Outstanding Women Chemists Local Section Event
<b>NCW Chemistry Day</b>	Outstanding Ongoing NCW Event
<b>Indiana Section ACS Awards Night</b>	Outstanding High School Student Program Award

The Executive Committee meets the second **Monday** of each month at 6:00 pm at The Center (6320 Intech Way, Indianapolis, IN 46278). All Local Section members are encouraged to come and join us to learn about the programs and events our section sponsors. Meetings usually last for 2 hours. Dinner is provided before the meeting. Please let us know if you plan to attend so we have a headcount. You can contact our 2019 Chair, Tamiko Porter at [tnp@IUPUI.edu](mailto:tnp@IUPUI.edu).

### 2019 Executive Committee

Chair	Tamiko Porter
Past Chair	Lisa Buchholz
Chair-Elect	Debra Feakes
Treasurer	Arvind Jaganathan
Secretary	Christine Skaggs
Councilors	Rob Sammelson, Robert Pribush, Beth Lorsbach, Brian Mathes
Alternate Councilors	Tom Xiao, Erin Dotlich, Tony Trullinger, Linda Osborn
At Large Member	Greg Smith, Anne Wilson, Maria Alvim-Gaston

### 2019 Committee Chairs

2023 NMLT Strategic Planning	Frederique Deiss
Assistant Newsletter	Andrea Moberly

Awards	Katherine Stickney
Celebrate Science Indiana	Julie Austin
Chemistry + Humanities	Anne Wilson
Chemistry Olympiad	Jianping Huang
Education and Olympiad	Robert Pribush – looking for successor in training
Election Chair	Matt Gardlik
Grants	Ann Cutler
Think Like a Molecule Poster Session	Meghan McLeod
K-12 Outreach	Erica Posthuma-Adams
Kids & Chemistry	Brian Mathes
Membership Affairs	Jordan Knotts
National Chemistry Week	Melissa Lee, Dan Klosowski
Newsletter – Editor and Design	Julie Austin
Project SEED	Elmer Sanders, Josh Taylor
Public Relations Chair	Norman Sesi
Science Day at Ball State	Ryan Jeske
Social Media	Erica Posthuma-Adams and Larry Sernyk
Honorary Trustees	Anne Hunt, Dawn Brooks, Sibel Selcuk
Webmaster	Abraham Hentz
Women Chemists	Carmin Burrell
Younger Chemists Committee	Tejas Shaw

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### \*\*\*Correction from the January 3<sup>rd</sup> 2019 ACS Accelerator\*\*\*

**Corteva AgriScience wins ACS Designing Greener Chemicals Award for Rinskor™**

In the previous edition of the Accelerator, I wrote that the new weed killer is derived **from** rice. Thank you to Joshua Taylor for notifying me that Rinskor™ is actually designed **for** rice to improve its

## The 2019 Awards Banquet

[illegible]

5:30 PM – doors open  
6:00 PM – dinner  
6:45 PM – keynote speaker  
7:00 PM – awards presentation

Parking is free (recommended lots are Lot # 11 and Lot # 14). A map of the University of Indianapolis campus and driving directions can be found at:

There is no cost for this event for all attendees. RSVP by May 19 via Eventbrite at the following link:

Questions? Contact Kathy Stickney at [kstickney@uindy.edu](mailto:kstickney@uindy.edu) or 317-788-3552.

**The Indiana Section of the ACS presents...  
Indians Baseball Night Part XVIII  
Coming to Victory Field, July 2019**



## **Indy Project SEED Students at the Boston National Meeting**

*With contributions by Elmer Sands and the Project Seed students*

Photos: <https://drive.google.com/drive/u/1/folders/1ZMNz-q24HzFRIOWRSE-aJG7HRoy-C8Fp>

It was an honor for a group of Project SEED students to attend the ACS National Meeting in Boston to celebrate the 50<sup>th</sup> anniversary since SEED started in 1968. In addition to meeting nearly over 100 students from other programs across the nation, they met the national leadership for Project SEED and Nobel Prize Winner Fraser Stoddard. They also presented at the Monday night Sci-Mix poster at the TD Garden. As all but one student had just started their senior year, we made the trip into a college visit to MIT, Harvard and Boston U.

I personally am very thankful for the Section's support of half the student expenses as it really enabled the students to see the bigger picture of the Project SEED program and the broad scope and reach of the ACS membership. The students are all looking forward to attending the 100<sup>th</sup> anniversary celebration!



All the details for the celebration were carefully organized, including delicious cake!





On the left is former Executive Director Madeleine Jacobs with Nobel Prize Winner Fraser Stoddard and past Project SEED participants from around the nation from 1968 to now. The young lady next to Dr. Stoddard is Richa Sharma MD from Indy SEED 2002 who graduated from the IU School of Medicine, completed residency, now a Fellow at St. Jude's.

From left to Right: Grace King, Feven Welde, Sherlyn Lopez-Contreras, Fraser Stoddard, Giancarlo Irizarry, Mohamed Naji, Alondra Salazar, Elmer Sanders





Nobel Prize Winner Fraser Stoddard surrounded by Project SEED interns from around the nation.

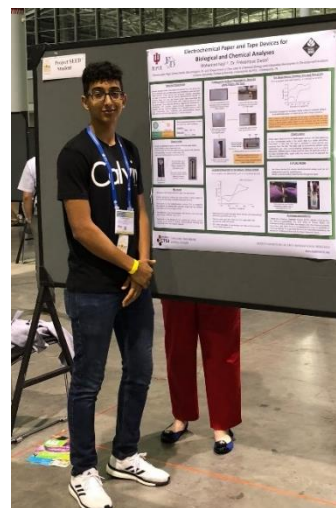
### Feven Welde

"I am thankful for having the opportunity to attend the Boston National Meeting, with the help of the Indiana ACS, because I got to meet a variety of well-accomplished individuals who all took their separate journeys to get to where they are. The experience alone of being in Boston was amazing, there was so much to learn about the people there and we met many people and made connections, just by walking on the street. I will never forget the memories I had with an amazing group of people in Boston. I got the opportunity to meet a wide range of people from fellow high school students to Nobel Peace Prize Chemistry winners. It was astonishing to learn more about chemistry, and the way people have discovered their true passion within the field as well. Thank you, Indiana ACS, for making this opportunity possible. It is a memory that I will treasure forever!"

### Mohamed Naji

"I am thankful for the Indiana ACS support for me to attend the Boston National Meeting because of the opportunities that were given to me on this trip. I was able to experience meeting very successful people who were have accomplished what I want to do in my future which was cool and eye-opening. I was also given the opportunity to go to major city, as I have been nowhere outside of Indiana. We got to meet students who were from other schools and cities that were also interested in what we liked and saw in science. Throughout this trip I learned about the many possibilities and new openings that are in the field of science and what they can bring. I would not have been able to experience an event like this without the support of the ACS Indiana Support and the SEED Program, as well as my mentors.

This photo to me is meaningful because of the feeling I got to be able to present my research in TD Garden for such a large event. It meant a lot to me and still does."



**Alondra Salazar**

"I am very thankful for the help of the Indiana American Chemical Society for the opportunity to be able to attend the 256th ACS National Meeting in Boston. Going to Boston for a few days was a very unique experience and so much fun. Not only did I get the opportunity to meet many professionals but got to spend time with friends, go to MIT and got to see how beautiful Boston is. I would have not been able to do this without the help of the Indiana ACS and Project SEED."



**From left to right; Grace King, Feven W, Alondra Salazar (me), Mohamed Nani, Giancarlo Irizarry.**

This is a meaningful picture because this trip wouldn't have been the same without the people in this picture.

**Sherlyn Contreras**

"I am extremely thankful for Indiana ACS's support that allowed me to attend the Boston National Meeting. This experience not only allowed me to share the fantastic research I have conducted last summer but it also allowed me to experience the beauty of Boston. Presenting at the convention provided me the opportunity to exercise and consequently grow my communication skills. I had to effectively express my research to many established professors and individuals. Of course, I was nervous, but I was also excited to be surrounded by peers and adults that were as fascinated with research as I was. Additionally, I was exposed to the research of these individuals. This trip also allowed to experience the expansiveness of the Boston culture that manifested in the food, historical momentums, and people. The

city was breathtaking and the peers that accompany me made the trip even more fun. I became friends with fellow interns that I never got the chance to know. These friendships would complete my Boston experience, an experience I will never forget. “

### Giancarlo Irizarry

“I am thankful for the American Chemical Society’s support that allowed me to attend the Boston National Meeting. During a few days that I participated in the National Meeting, I learned how the Project SEED Internship is a family or team that helps people who are interested in science. This experience allowed me to face my fear of public speaking, which has helped me in my career as a student during this school year. Furthermore, I was able to meet a fellow Puerto Rican named Rocio Del Mar Aviles, which made a motivational speech about science. The ACS Boston National Meeting made me realized two very important things. Firstly, if I keep working and studying extremely hard I can finish a degree in science, which will allow me to attend a meeting like this one. Secondly, I realized that in this big world where everyone is different there is a great number of people that share my same interests, ideas, and philosophy. During the trip to Boston, I had the opportunity to learn about Quincy Market, the history of the 13 colonies, and our founding fathers. The best part of the trip to Boston was meeting the chemist and winner of the Nobel Prize in Chemistry, Fraser Stoddart. Thus, I will never forget the extraordinary experience the American Chemical Society National Meeting in Boston has given me.”



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## ***You Be the Chemist* Middle School Challenges Take Place in Indianapolis**

*Submitted by: Lindsey Horty*

The ***You Be the Chemist*** local middle school challenges took place in February and March around the state of Indiana. The ***You Be the Chemist*** challenges are organized by the Chemical Education Foundation and local organizers across the country with the mission of promoting science education and STEM careers to middle school students. Students participate by answering chemistry-based questions on topics including



experimental design, measurements, matter, atomic structure, the periodic table, and laboratory equipment. Indiana hosted local challenges in Evansville, Indianapolis North, Indianapolis South, and South Bend this year. The top winners from each local challenge will advance to the state challenge on April 13<sup>th</sup> in Indianapolis.

The Indianapolis challenges were hosted by Corteva Agriscience (Indianapolis North, Larry Sernyk organizer) and University of Indianapolis (Indianapolis South, Lindsey Horthy organizer). We would like to recognize the students and teachers who participated and congratulate those top winners who will advance to the state challenge.

#### Participating Indianapolis Schools:

School	Educator
Chapel Hill 7 <sup>th</sup> and 8 <sup>th</sup> Grade Center	Vicki Jarrett
Creekside Middle School	Cheryl Ruetz
Eman Schools	Tabby McLain
Fishback Creek Public Academy	Ashley DeVince
Lebanon Middle School	Michele Shultz
Lynhurst 7 <sup>th</sup> and 8 <sup>th</sup> Grade Center	Ashley Pepelea
Mt. Vernon Middle School	Krissy Monagle
New Palestine Junior High School	Mary Jones
St. Barnabas Catholic School	Kristen Dial
St. Jude Catholic School	Lauren Greves
Sycamore School	David Schuth
Western Middle School, Kokomo	Peggy Obermeyer
Zionsville Middle School	Derek Grimm

**Top Students Advancing to the State Challenge:**

<b>First Name</b>	<b>Last Name</b>	<b>School</b>
Anna	Elpers	St. Jude Catholic School
Andrew	Baugh	St. Jude Catholic School
Ashley	Young	Zionsville Middle School
Dakota	Dugan	New Palestine Junior High School
Dawson	Anderson	Mt. Vernon Middle School
Hanna	Warren	Sycamore School
Hannah	Taylor	New Palestine Junior High School
Hadyn	Ball	St. Jude Catholic School
Jackson	Roesler	Chapel Hill 7 <sup>th</sup> and 8 <sup>th</sup> Grade Center
Jacob	Eilenstine	Lynhurst 7 <sup>th</sup> and 8 <sup>th</sup> Grade Center
Jalilyah	Bell	Lynhurst 7 <sup>th</sup> and 8 <sup>th</sup> Grade Center
Kavya	Chheda	Sycamore School
Laila	Abdelwahab	Eman Schools
Landon	Niles	New Palestine Junior High School
Lucca	Mo	Creekside Middle School
Mallory	Clemens	Chapel Hill 7 <sup>th</sup> and 8 <sup>th</sup> Grade Center
Mason	Durbin	New Palestine Junior High School
Matthew	Johnson	St. Jude Catholic School
Mimi	Copeland	Zionsville Middle School
Noah	Meroueh	Creekside Middle School
Walker	Gollapudi	Sycamore School
Yucheng	Wang	Creekside Middle School
Zane	Kale	St. Barnabas Catholic School

### Indianapolis North Participants



### Indianapolis North Participating Students Answering Questions



### Indianapolis North Top Students



**Indianapolis South Participants**



**Indianapolis South Participating Students Answering Questions**



**Indianapolis South Top Students**



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## Mark your calendars for 2020!

### 2020 Think Like a Molecule Poster Session part of the **IU Bicentennial Anniversary**

Collaborating Associations/ Organizations/ Academies conference

**Beyond Boundaries: Indiana Academies Symposium 2020**  
(Fri-Sat.) April 3-4, 2020; Indiana Convention Center

ACS coordinated events are shown below.

#### Day One (Friday, April 3, 2020)



10:30 am – 12:00 am	Symposium special collaborations – oral
12:15 pm – 1:30 pm	Networking lunch
1:45 pm – 3:15pm	Oral presentations from students 1
3:45 pm – 4:45 pm	Oral presentations from students 2
4:45 pm – 5:00 pm	Reception/Poster Sessions
6:45 pm – 8:30 pm	<b>Major Keynote address and Conference Banquet</b>
8:30 pm – 10:00 pm	Ice cream social/networking night

#### Day Two (Saturday, April 4, 2020)

10:30 am – 3:15 pm **Think Like a Molecule 2020** (annual poster session)  
with 2 poster sessions, a lunch with keynote speaker and awards ceremony

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## Fundamentals and Actions to Position Plastics for a More Sustainable World

By Linda Osborn

On Wednesday evening on the 23<sup>rd</sup> of January, after a networking dinner for 60 people, we hosted a seminar to learn about fundamentals and actions to position plastics for a more sustainable world. This event was free and open to all ACS members and friends. Jeff Laborsky, CEO of Heritage Environmental Services, LLC (HES) spoke at the dinner to an engaged audience.



Dr. Ken Miller discussed the environmental impact of plastic waste, the effectiveness of reduce/reuse/recycle, feedstock recovery technologies, product redesign for circularity, the role of public policy and more. Suggestions were made for how chemists can ensure global sustainability solutions and responsible growth. For example, since so many plastics can't be efficiently recycled, it is much better to reduce usage of single-use items. Questions and answers/comments followed.

The partnership between the Center, Heritage Environmental Services (HES), and the ACS for this event allowed for the dissemination of information to all participants about a very relevant topic and provided networking opportunities between industry, government, and academic organizations.

A survey was distributed electronically to all participants that evening. One of the questions was "What was the single most valuable thing you learned and will use in the future?" Responses included:

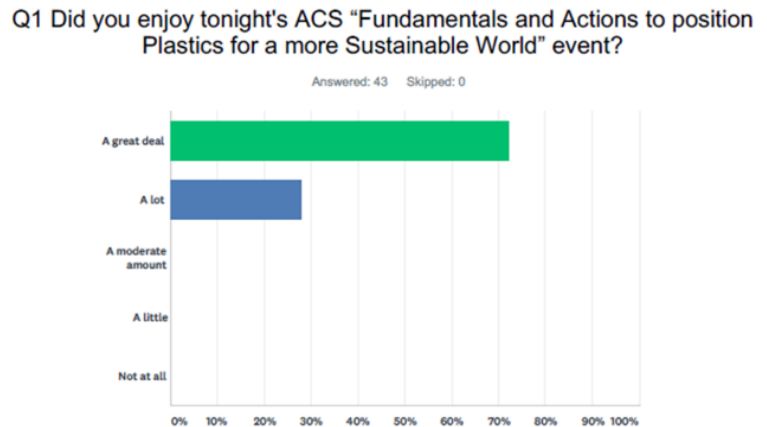
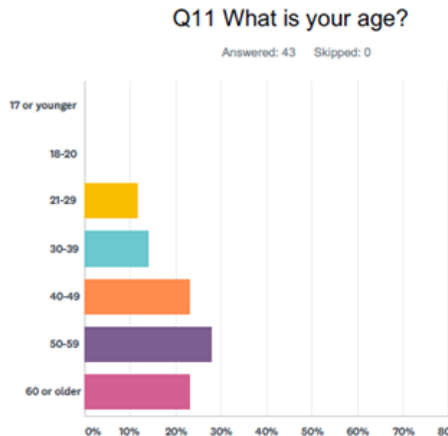
*The discussion of pyrolysis to use mixed feedstocks was interesting. I'm excited to see that as an up and coming part of the industry.*

*The speakers comment that he thinks the solution is going forward with plastic, not going backward away from plastic. The issue is not high stability polymers, but the is more an issue of poor deployment. The issue of them being viewed and produced to be disposable. More thought needs to be made to how plastic end products can be designed to be readily reused and recycled.*

*What the Circular Economy is and how it works.*



Other questions on the survey included ranking the program, speaker, venue, free meal, etc. All participants that completed the survey enjoyed the program a lot or a great deal. Demographically, the ages ranged between 21 to 60+, gender was split 50/50, but the diversity of participants was poor, mostly white (93%) with 7 % from multiple races.



Ken Miller was an excellent speaker and his presentation was very timely and informative. Ken has a bachelor's degree in chemistry from Xavier University, Cincinnati, Ohio and a doctorate in chemistry from Indiana University, Bloomington, Indiana, where he is an adjunct faculty member. Ken Miller is a consultant with 34 years of research and sustainability leadership experience in the chemical and plastic industries. We appreciate that he shared his expertise with us for this occasion.



One of the most notable people in the audience was Allyson Mitchell, who is Executive Director of the Indiana Recycling Coalition. IndyStar has published 2 big stories about recycling in Indianapolis. Allyson shared links with Ken, that I in turn share with you if you want to learn more about this topic.

Indianapolis is among most wasteful:

<https://www.indystar.com/story/news/environment/2019/01/30/indianapolis-biggest-city-u-s-without-recycling-all/1272400002/>

Missing out on economic opportunity:

<https://www.indystar.com/story/news/environment/2019/01/30/recycling-rates-low-indianapolis-and-hurts-manufacturing/2140900002/>

4 reasons why recycling is worth it:

<https://www.indystar.com/story/news/environment/2019/01/30/recycling-important-here-4-reasons-why/2582531002/>

Recycling stories in 30 seconds:

<https://www.indystar.com/story/news/environment/2019/01/30/recycling-indianapolis-or-lack-thereof-explained-30-seconds/2583258002/>

Recycle with your kids: <https://www.indystar.com/story/entertainment/2019/01/30/recycling-kids-10-easy-activities-reduce-and-reuse/2584426002/>

Thanks to all who attended, and to all of you who can make a difference to improve sustainability. A special thanks goes to Joanne Jones, co-organizer, with HES, Dana Lancaster, event planner from The Center, and Marques Cain for IT and video support.

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Your ACS Indiana local section is getting ready for the...



Participate in the brainstorming and preparation for the ACS National meeting when Indianapolis hosts this event in 2023!

*If you are interested, please contact Frederique Deiss: [fdeiss@iupui.edu](mailto:fdeiss@iupui.edu).*

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## Congratulations to Dr. Maria Alvim-Gaston!

*This message is being sent on behalf of the ACS Committee on Community Activities.*

Dear Ms. Alvim-Gaston:

Congratulations! You have been named a recipient of the 2019 [Outreach Volunteers of the Year](#) award for the Indiana Local Section. Awards will be mailed to your local section chair to be presented at their time of choice.

An announcement with all of the awardees' names will be made in the spring of 2019 in *C&EN*, awardees photos and volunteer accomplishments will be published on the [Get Involved, Stay Involved](#) web page, and profiles will be posted weekly on ACS social media accounts. In preparation for this announcement, please submit a photo of yourself to include in these mediums. ACS requires permission to use the photo from both yourself (the **awardee** is required to sign the [Photo Upload and Model Release Form](#)) and the copyright owner (the **photographer** is required to sign the [Non-Exclusive License](#)) before the photograph is posted online. **Please provide your photo and these releases by Sunday, January 27, 2019.** If you have any questions about submitting your photo or signing the releases, please feel free to contact [outreach@acs.org](mailto:outreach@acs.org).

Congratulations again and happy New Year!

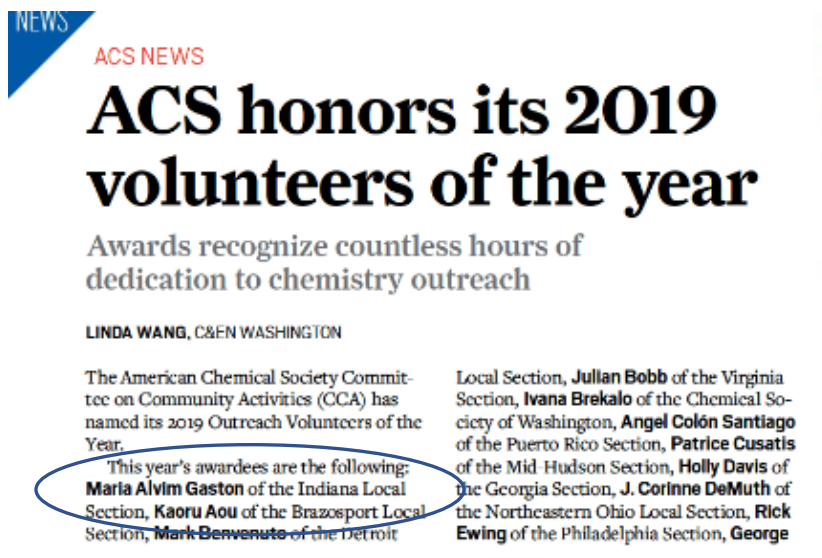
Sincerely,

Holly Davis  
2019 Chair, Committee on Community Activities (CCA)

**ACS Chemistry for Life**  
American Chemical Society

*Maria was honored in the March 4, 2019 edition of C&EN News on page 42!*

*Please congratulate her on such a wonderful recognition, not only from those in the Local Section who appreciate her contributions, but also at the National level!*



From the March 18, 2019 C&EN News pg 35:

COMMENT

# What ACS can do for its industry members

CHRISTINA BODUROW, ACS DISTRICT II DIRECTOR

**D**id you know that in recent years, the number of industry members in the American Chemical Society has been declining? In 2012, the number was around 58,000, and by the end of 2018, the number of industry members had dropped to about 45,000. What could be behind this decline? And what can ACS do about it?

First, we must recognize that the career path for chemists in industry has changed dramatically over the past 30–40 years. What once were fairly stable paths through laboratory, manufacturing, and technical service roles have been significantly transformed. Industrial technologies, lower-cost labor markets, multidisciplinary integration, mergers and acquisitions, intense global competition, the need to rapidly improve and change how industrial innovation occurs, and—most of all—the pressure to improve profit margins have all contributed to this transformation. The skill sets needed to be successful include not only core chemistry knowledge but also information technology capabilities; the ability to work and communicate in multidisciplinary, global team environments; and an understanding of the business of industry research, development, and manufacturing.

Industry members' careers go through stages that transcend all these factors. Industry chemists and chemical engineers need to have a professional organization that can provide the right tools, knowledge, and development to help them with their lifelong industry career path. ACS has worked hard to position itself to be the best professional science organization in the world to walk alongside and support career success.

What is essential at the earliest stages of one's industry career? It is establishing scientific credibility. Reading the literature and performing literature searches to generate new hypotheses are major tools to build one's knowledge. The world's best

capabilities, found in ACS's CAS and ACS Publications, form the backbone of nearly all chemists' early career development. Whether one is doing basic research or designing the manufacturing details of a company's next product, it is crucial to have the most up-to-the-minute information as an industry chemist. In addition, many young industry professionals publish in ACS journals or turn to regional or national ACS meetings as a venue to present and improve their knowledge



Together, we can grow the ranks and provide exceptional support to a very important sector of ACS.

and experience.

Continuous learning is central to all chemists' growth and development, and ACS has a strong

history of evolving its offerings to keep up with industry chemists' needs. As careers progress and the field of responsibility expands, it is important to branch out into new areas of science. ACS offers hundreds of courses to help industry chemists rapidly learn about new fields and get connected to the experts. Courses can be taken live at national and regional meetings or in a local setting. Many courses are also available online or in webinar format. Finally, national and regional meetings themselves have evolved and taken on much more cross-disciplinary content in their technical sessions.

Eventually, industry professionals reach a stage at which in addition to their technical skills, they also need soft skills, such as leadership, influence, and communication, to progress. ACS provides a spectrum of opportunities to support professional development in this area. The society offers workshops and courses, but what many find even more helpful is the opportunity to lead, manage, and participate in ACS technical programs, divisions, and committees. ACS has 32 technical divisions and 45 committees.

These activities also help rapidly build one's professional network. For mid-to-advanced-career industry chemists, knowing the key thought leaders, trends, and competitive forces in one's specific industry will help expand the influence they might have in their organizations. Members can use the society to build strong business-to-business networks through participation in ACS technical sessions or through committee or division membership. Regional and national meetings pay dividends through shared learning and

noncompetitive information exchange regarding trends in one's industry segment.

Looking for a job, whether it be as an entry-level industry chemist or in a mid-career or advanced role? The ACS Career Navigator guides members in exploring career roles and provides the resources necessary to function effectively in them.

In fact, ACS provides industry chemists a lifetime of benefits through all stages of their careers, including the following:

- ▶ Scientific literature and advanced information-search capabilities (ACS Publications; CAS)
- ▶ Technical and scientific education (ACS courses, workshops, webinars)
- ▶ Leadership and management skills (ACS courses; participation in divisions, committees, local sections)
- ▶ Career search and development resources (ACS Career Navigator)
- ▶ Professional network for shared learning, benchmarking, and continued career growth (ACS Leadership Development System)

I encourage you to share your experiences and the benefits of membership with nonmember chemical industry colleagues. If you have ideas or suggestions, please feel free to contact me at [c.bodurow@acs.org](mailto:c.bodurow@acs.org).

Views expressed are those of the author and not necessarily those of C&EN or ACS.

CREDIT: COURTESY OF CHRISTINA BODUROW

## ACS Invited to Science Night at Decatur Township



By Linda Osborn

On March 14<sup>th</sup>, three ACS members set out to spark interest in chemistry with grades 1-6 students from Decatur Township DELC Blue Academy on Mann Road. Kathy Stickney, Larry Sernyk, and I were busy at their Science Night with hands on activities for the kids that included marshmallows that grew and shrunk, a large plasma ball and Bernoulli bags. We also gave parents magnets to let them know about Celebrate Science Indiana on October 5<sup>th</sup>!

Erin Bangel, who teaches at the school, was at Chemistry day at the Children's Museum last year and saw a group doing some very cool table experiments. She found our website, managed by Abraham Hentz, and asked if we could do more educational outreach programs by participating in this Decatur Township event.

*"The primary academic focus of the Blue Academy centers around "STEM," using Science, Technology, Engineering, and Math as the pillars for student learning. Literacy is integrated across the curriculum for all students to become effective readers and writers, while using STEM to become critical thinkers." So, the evening of fun learning was a perfect fit for their focus.*



The hustle and bustle in the cafeteria, where the event was held, portrayed the excitement at the booths. The children and parents seemed to enjoy all the activities. At our booth, each child received a rainbow disk to take home and a coaster that said "I luv Chemistry"! Who knows, perhaps we sparked at least one child to be a future ACS member!



Don't forget to check out our website for back issues of the Accelerator, minutes from the Executive Committee meetings, and a new calendar of events!

<http://www.acsindiana.org/acs/>



### member-get-a-member

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



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## Local Section Volunteer Appreciation Night

*By Julie Austin*

On December 12<sup>th</sup>, at our annual volunteer appreciation night, approximately 50 chemists from the Local Section gathered at the Sun King Spirits on the city's north side for tacos, beers and spirits. We gave the 3 awards that we have given in the past:

**Chemistry Ambassador Award - Paul Morgan**

**Section Volunteer of the Year Award (this was also a national recognition) - Maria Alvim-Gaston**

**Salutes to Excellence Award - Linda Osborn**

In addition, we created the new Linda Osborn Service Award in her honor for all the years she has been an integral part of our section:

**Linda Osborn Service Award - Lisa Spurlock-Brouwer**

Thank you to all who came out to share the successes of 2018 with us!

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## It Takes a Village to Run the Hoosier Science and Engineering Fair

*By Linda Osborn*



The Hoosier Science and Engineering fair offers an opportunity for children from 4<sup>th</sup> grade through 12<sup>th</sup> grade to explore the possibilities of hands-on scientific inquiry. The competition focuses on identifying, inspiring, and engaging the state's next STEM generation.

Last year during the Hoosier Science and Engineering Fair, almost 8 inches of snow made travel difficult. This year, on Saturday March 30, 2019, we started with rain. A total of 197 students that won their Indiana Regional Fairs, filed into The Center with their parents/guardians to set up their science fair projects in their four-feet of space to convince the judges that their project should win an award. that will move on to the Intel International Fair in Arizona. About

*Grand award winners are shown here holding their Indiana State flags. These 16 students will represent Indiana at the Intel International Fair in Arizona on May 16, 2019.*

200 judges arrived at the same time, making quite a commitment to give each student a fair evaluation in a very professional manner and helping identify the best projects in the state of Indiana.

The Science Education Foundation of Indiana was formed in 1964 to provide resources and coordination for students from Indiana to attend the National Science Fair. In 1988, the first State Science fair was held and since that time thousands of Indiana's brightest and best young scientific minds have presented their research to Professional and Academic Scientists. Under the direction of SEFI Executive Director Glen Cook, so many dedicated leaders give so much of their time to make all of this happen; it really does take



*Some of the Junior division award winners are shown here proudly holding their plaques.*

a village to pull this off. So many aspects must be managed; it required students, teachers, parents, mentors, judges, organizers, sponsors, award givers and lots of funding to make it all happen. For example, The Heritage Group (THG) sponsored this event by hosting at The Center and donating the time of twelve professional staff members to help run the event, logistics and security.

For the awards ceremony, the students, in order of project, filled the floor level of the auditorium, each receiving a medal on their way in to join their already seated, eager parents/guests. Since each student received two tickets for guests to enjoy the program in The Quarry, overflow guests were able for the first time to view the awards program in the front lobby as a live streamed video. About 60 people used this service and 30 people were able to watch it remotely.

Sixteen Senior division participants won a spot on the Indiana State team opportunity to showcase their independent research and compete for on average \$5 million in prizes at Intel ISEF. THG also donated \$2,500 to sponsor one of these students to attend the International fair. If your company or institution is interested in sponsoring a student, please contact [gcook@sefi.org](mailto:gcook@sefi.org). Intel ISEF alumni have gone on to receive some of the world's most esteemed academic honors, including one Nobel Prize, one Breakthrough Prize, three National Medals of Science, and six MacArthur Foundation Fellowships. They're involved in some of the most groundbreaking scientific research; perhaps some of these young minds will become Indiana ACS members soon!

ACS had about 20 members participate in helping during this event. In addition to help with organization, and judging, the ACS, Indiana Section, awarded \$500 in prizes as determined by special judge Maria Alvin-Gaston.



First Place Cash award of \$300

Second Place Cash award of \$150

Third Place Cash award of \$50

For those of you who helped, we thank you so much for dedicating your day to make a difference in the lives of the 197 student attendees. It is quite a commitment that you took seriously and your professionalism in all aspects is greatly appreciated. We hope you will join us again next year.

As people left after the awards program, vehicles and roads were, once again, covered in snow.

Please  
SAVE THE DATE  
for the 32<sup>nd</sup>



SCIENCE EDUCATION FOUNDATION



Saturday March 28, 2020



**THE CENTER**

The Heritage Group

Thank You!



## Support CERM 2019 in Midland, MI



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June 4-8, 2019 | Midland, MI | [www.acscerm2019.org](http://www.acscerm2019.org)



### Education Workshops & Programs

We will do our best to accommodate all those interested in attending the workshops listed below, but first preference will be given to registering K-16 educators. Please be mindful that some sessions have limited seating.					
Education Workshops and Programs	Track		Date Time	Midland Location	Attendee # Limit
<input type="checkbox"/> Where's the Energy? Workshop	K-12	THURSDAY, JUNE 6	9:15 - 11:15 AM	MSU-STEM	30
<input type="checkbox"/> Developing Graduate Student Leadership Skills in Laboratory Safety	12-16		9:15 - 10:45 AM	MSU-STEM***	25
<input type="checkbox"/> Toxicology for Chemists	12-16		10:45 - 12:15 PM	MSU-STEM***	30
<input type="checkbox"/> Using Pennies to Explain Chemistry of the Flint Water Crisis Workshop	K-12		11:15 AM -12:15 PM	MSU-STEM***	90
<input type="checkbox"/> Chemical Education Posters - Program	K-16		12:00 -2:00 PM	H Hotel	None
<input type="checkbox"/> Chemical Education Symposium - Program	K-16		2:00 - 5:00 PM	H Hotel	None
<input type="checkbox"/> Creating a STEM Elementary School using Project Lead the Way concepts. - STEM Learning Walk (Project Lead the Way) - Family Engineering Workshop	K-5		1:00 - 4:30 PM  1:45-2:30 PM 2:45-4:30 PM	Central Park STEM School	30
<input type="checkbox"/> 2YC3-1 Program	12-14	FRIDAY, JUNE 7	9:15 AM – 12:15 PM	MSU-STEM	None
<input type="checkbox"/> STEM on a Budget	K-5		9:15 - 11:15 AM	MSU-STEM***	30
<input type="checkbox"/> Introduction to 3-D Printing in the Science Curriculum	9-16		9:15 AM – 2:00 PM (break for lunch)	MSU-STEM	90
<input type="checkbox"/> Green Chemistry in the Undergraduate Curriculum	12-16		9:15 AM – 12:15 PM	MSU-STEM	40
<input type="checkbox"/> Making Water Chemistry Relevant: Salmon in the Classroom	6-12		11:15 AM - 12:15 PM	MSU-STEM	25
<input type="checkbox"/> Chemical Education Posters – Program	K-16		12:00 - 2:00 PM	H Hotel	None
<input type="checkbox"/> Sink or Float? Understanding Density	6-8		1:00 – 3:00 PM	MSU-STEM***	30
<input type="checkbox"/> Chemical Education Symposium - Program	K-16		2:00 - 5:00 PM	H Hotel	None
<input type="checkbox"/> Developing a Safety Program for the Undergraduate Curriculum	16+		2:00 – 5:00 PM	MSU-STEM***	30
<input type="checkbox"/> MI Star Middle School Science Curriculum	6-8		3:00 - 5:00 PM	MSU-STEM***	30
<input type="checkbox"/> Mark Bourgeois "Virtues and Values in Science Education" Chippewa Nature Center Dinner and Tour.	NA		6:00 – 8:00 PM	CNC	90
<input type="checkbox"/> Melanie Cooper "Chemistry, Life, the Universe and Everything"	9-12	SATURDAY, JUNE 8	8:00 AM – 9:00 AM	MSU-STEM***	90
<input type="checkbox"/> Inquiry-based Learning for Your Classroom	3-8		9:00 – 11:00 AM	MSU-STEM	30
<input type="checkbox"/> Beyond Benign: Sustainable Innovations	K-12		9:00 AM – 12:00 PM	MSU-STEM***	30
<input type="checkbox"/> Introduction to 3-D Printing in the Science Curriculum	K-8		11:00 –4:00 PM (break 12-1 PM)	MSU-STEM	16
<input type="checkbox"/> Educator Lunch with ACS Board	K-16+		12:00 – 1:00 PM	TBD	90
<input type="checkbox"/> Green Chemistry is Safe Chemistry in the HS Chemistry Lab	6-12		1:00 – 4:00 PM	MSU-STEM***	30
<input type="checkbox"/> 2YC3-2 Program	13-14		9:00 AM – 4:00 PM	Library	None
<input type="checkbox"/> 2YC3-3 Program	13-14	9:00 AM – 4:00 PM	Library	None	

\*\*\* These workshops will be simultaneously broadcast to Long-Distance Learning satellite locations

Central Park STEM School: 1400 Rodd Street, Midland, MI 48640

CNC: Chippewa Nature Center, 400 S. Badour Road, Midland, MI 48640

Library: Grace A. Dow Library, 1710 W. St. Andrews Road, Midland, MI 48640

MSU-STEM: Michigan State University - St. Andrews, 1910 West St. Andrews Road, Midland, MI 48640

The H-Hotel: 111 W. Main Street, Midland, MI 48640

## 2019 Calendar of Events:

EVENT	DATE	Location
2019 Indiana State You Be the Chemist Challenge	April 13	The Center (6320 Intech Way, Indianapolis 46278)
Science Day at Ball State	April 14	Ball Gym, BSU Muncie
Chemistry Olympiad - National Exam	April 27	Butler
Great Lakes Regional Meeting	May 1 to May 4	Lisle, IL
Awards Night	May 22	University of Indianapolis
Baseball Night	July - TBD	Victory Field
Ignite your Superpowers	August 22	IUPUI
Fall National ACS Meeting & Exp	Aug 25-29	San Diego, CA
Karen Steelman Archaeology & Chemistry	Sept. TBD	Butler University
Illustrated Poem Contest	Sept. 19	Entry due date
Celebrate Science Indiana	October 5	State Fairgrounds, Indy
National Chemistry Day	November 3	Children's Museum, Indy
Volunteer Appreciation	TBD	
2023 National Meeting Brainstorming	TBD	
<b>Check our website for the latest and greatest on upcoming events for 2019!</b>		

<http://www.acsindiana.org/acs/>

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