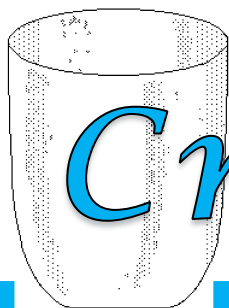


The Crucible



Volume CIII, No. 10

August 2018



Call for Nominations

Pittsburgh Section of the ACS Pittsburgh Award

The Pittsburgh Award was established in 1932 by the Pittsburgh Section of ACS to recognize outstanding leadership in chemical affairs in the local and larger professional community. This Award symbolizes the honor and appreciation accorded to those who have rendered distinguished service to the field of chemistry. The Award consists of a plaque presented annually at a section dinner. Members of the Pittsburgh Section, or in exceptional cases, nonmembers, who have done work worthy of recognition toward increasing chemical knowledge, promoting the chemical industry, benefiting humanity, or advancing the Pittsburgh Section, are eligible for consideration.



The Distinguished Service Award

The Distinguished Service Award was established in 2007 by the Pittsburgh Section of the ACS to expand and replace the predecessor Chairman's Award of the section. Both recognize outstanding volunteer service to the Section. The Award, consisting of a plaque, is presented annually at a Section dinner, which is open to the public. Members of the Pittsburgh Section, past or present, who have provided outstanding service in advancing the Pittsburgh Section, are eligible for consideration.

*Nominations for both awards are solicited from the membership of the Pittsburgh Section. Please include your contact information, the nominee's contact information, any supporting letters, and the nominee's CV. More information about the awards, including information on past winners can be found on the ACS website:

<http://www.pittsburghacs.org/awards/pittsburgh-award/>

<http://www.pittsburghacs.org/awards/distinguished-service/>

***DEADLINE**

Please send all nominations to Pittsburgh Section Chair-Elect, Dr. Bradley Davis, bdavis@waynesburg.edu, by **Wednesday, August 15, 2018**. For more information about the nomination process, contact Bradley at 724-852-3376.

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**Pittsburgh Local
Section Councilor
Kimberly Woznack
featured in Chemical
& Engineering News
Article**



Pittsburgh Local Section Councilor and California University of Pennsylvania Professor, Kimberly Woznack wrote an article featured in the ACS Publication Chemical and Engineering News! Kimberly currently serves as Chair of the National ACS Women Chemists Committee (WCC) and wrote the article in this role. See [How the Women Chemists Committee stays relevant after 90 years](#). Congratulations, Kimberly!

Announcing the Re-formation of the

ACS Pittsburgh Section *Education Group!*

**ANTICIPATED FIRST MEETING
IN EARLY NOVEMBER**

More information coming to the
Crucible, Website, and Section App soon.

Questions?
Want to get involved now?

Contact Dave Gallaher
or Evonne Baldauff

dlgallaher@carlow.edu

ebaldauff@waynesburg.edu

Congratulations to the University of Pittsburgh's Daniel Lambrecht – Spring 2018 COMP ACS Winner



The American Chemical Society Computers in Chemistry (COMP) Division has awarded University of Pittsburgh Assistant Professor Daniel Lambrecht with one of four 2018 OpenEye Outstanding Junior Faculty Awards in Computational Chemistry. He was awarded for his work entitled *Constructing Optimal Structure-Function Relations Directly from First Principles*. Congratulations, Daniel!

Spring 2018 Travel Award Winner Ashley Trouten Reports on ACS National Meeting Experience

In March of 2018, I had the amazing opportunity to attend the American Chemical Society's National Meeting in New Orleans, LA. I could not thank all of you at the Pittsburgh section of the ACS enough for

awarding me with the Student Travel

Grant. With the money you gave me, I was able to pay for a majority of the costs associated with the trip and was able to

go all the way to Louisiana to show everyone the work that me and my research partner, Alyssa Bowen, had been working on under the advisement of Dr. Mary Railing.

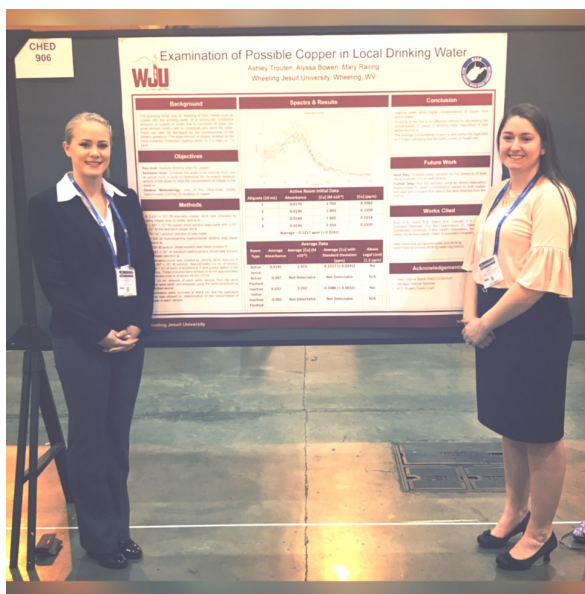
We have been working with the Ultra-Violet Visible Spectrometer in order to test for metals in our drinking water on campus. We had some complaints from residents in the dorms that the water had a metallic taste, and upon research we found many articles that suggested that the bluish tarnish we saw in the basin of the sink could be a sign of copper. This spiked our interest, so we began working towards quantifying how much copper was actually

in the water. The project definitely presented us with a variety of challenges, and even our end results were not quite what we had hoped for. But we learned a lot about research and lab techniques through-

out the year, and most importantly, that failure is just one of the many routes to success.

The ACS meeting was an amazing experience. It was our first time pre-

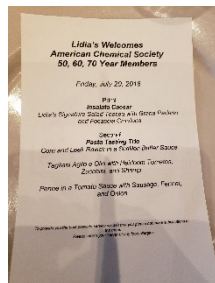
senting to more than just the small chemistry department at school. The people who talked with us were very encouraging and helpful, offering tips for further work and supporting two hard working undergrads as we start our marks as researchers. It was also super cool to see all the work the other students had been doing. It was truly amazing to see some of the ground-breaking stuff these other undergrads had been working on and started putting all sorts of ideas into my mind about what I might want to try next with my own research.



Continued on Page 5

2018 ACS 50, 60, 70 Year Member Luncheon

On Friday, July 20, we celebrated our 2018 50, 60, and 70 year members at Lidia's restaurant in the Strip District. Twenty-one guests enjoyed a carefully crafted menu just for our group. Former Chair from 1974 and member celebrating 66 years, Dr. Denton Albright came with his wife Lois as well!



60 Year Member Bob Lacount
and 2018-2019 Section Chair
Brad Davis

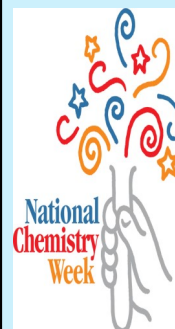


2018-2019 Section Chair
Brad Davis and 50 Year
Members: James D.B. Smith,
Ken Migliorese, Edward Bau-
er, Louis Franklin Pochet,
Brother Eric Henderson,
Clifford, Schoff

Congratulations to our 2018 50, 60, and 70 year members and thank you for your many years of service to the American Chemical Society!

Congratulations to our Latest Travel Grant Winners

Again, the Travel Grant Committee received so many great applications. Congratulations to the winning students for rising to the top of the heap! Our undergraduate winner was Senior McKayla Miller from Slippery Rock University. She will present "Facilitation of hydrolysis of a Ni-schiff base using varied chelating agents." Our graduate winner, third year Tatsuya Higaki from Carnegie Mellon University will present "Tailoring the Structure of 58-Electron Gold Nanoclusters: Au₁₀₃S₂(SNap)₄₁ and Its Implications." Stay tuned for their trip reports Congratulations and make the Pittsburgh Section proud at the 256th ACS National Meeting in Boston in August!



National Chemistry Week 2018 will be celebrated the week of October 21-27, 2018 with the theme, "Chemistry is Out of This World" and will

focus on chemistry of and in outer space. Here in Pittsburgh we will celebrate our 20th anniversary of NCW celebrations at the Carnegie Science Center on Friday and Saturday, October 26-27. Look for more details in the fall issues of The Crucible.

'Greener' Ways to Color Clothes

["These new textile dyeing methods could make fashion more sustainable"](#)

Chemical & Engineering News

When buying a new outfit, most people don't consider the process that went into tinting that vivid red shirt or colorfully patterned dress. But dyeing clothes requires massive amounts of water, energy and chemicals. So companies are working on new ways to color textiles that are both environmentally friendly and cost-effective, reports an article in *Chemical & Engineering News* (C&EN), the weekly newsmagazine of the American Chemical Society.

In addition to being resource-intensive, textile dyeing often dumps large quantities of chemicals into wastewater from mills and dye houses in places like China, India and Bangladesh, writes Senior Editor Melody Bomgardner. These substances can turn rivers startling colors and may also affect human health, which recently prompted the Chinese government to shut down many dye factories until they could undergo environmental inspections. The resulting chemical shortage, as well as the desire for greener processes, has prompted textile manufacturers to seek alternatives to traditional ways of coloring clothes.

Approaches vary widely. Intech Digital, a firm with headquarters in Hong Kong, is using inkjet printers to color textiles with pigments rather than dyes, a process that uses very little water and produces much less waste than traditional methods. Huntsman, one of the world's largest suppliers of textile dyes and chemicals, has developed a line of dyes that bond more readily to cotton fabric, requiring less water and energy. Another company, ColorZen, invented a cotton pretreatment step that increases the attraction between dye and fiber, using 90 percent less water, 75 percent less energy and 90 percent fewer auxiliary chemicals. Still other companies, like U.K.-based Colorifix, are producing natural dyes by microbial fermentation, a process that avoids the harsh chemicals used to make synthetic dyes. These innovators of green dyeing technology will need to prove to the textile industry that their techniques perform just as well as tried-and-true methods without increasing cost, Bomgardner notes.

Note: ACS does not conduct research, but publishes and publicizes peer-reviewed scientific studies.

Travel Award Winner National Meeting Report Continued from Page 3

Along with the chance to go to an experiment fair, where all sorts of groups had demonstrations set up. We picked out our favorites and got the procedures for them so that we could come back to our community and do these demonstrations for a group of at risk youth that many of us work with known as the H.E.S.S (or Help Enrich Someone Special) group. They love when we do science with them!

Aside from the meeting, we also had lots of time to explore the city and see a place full of life and history. We dined at all sorts of delicious places and I got to try good southern food for the first time in my life. I would not have had all of these experiences and learned as much as I did if it weren't for your generosity! So once again, thank you so much for making the Student Travel Grant a thing and for granting me with it so that I could attend my very first ACS meeting.

Sincerely,

Ashley Trouten



2018 Earth Day Poem Contest Winners

As part of the American Chemical Society's (ACS) 2018 Chemists Celebrate Earth Week (CCEW) celebration, the Pittsburgh Section ACS sponsored an illustrated poem contest for students in grades K-12. Students could pick topics related to the 2018 CCED theme "Dive into Marine Chemistry." Poems could be any style (free verse, limerick, haiku, etc.). Entries were judged based upon relevance to and incorporation of the theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.

Each 1st place winner will receive a check for \$50 and their winning poem has been entered into the national ACS CCEW poetry contest sponsored by the ACS's Committee on Community Activities.

And the winners of the 2018 Pittsburgh Section ACS's CCEW poetry contest:

K-2nd Grade

No entries received

3rd-5th Grade

Caliya S. (5th Grade), North Star Middle School,
Teacher: Mrs. Karen Walker Poem Title: All about the Ocean

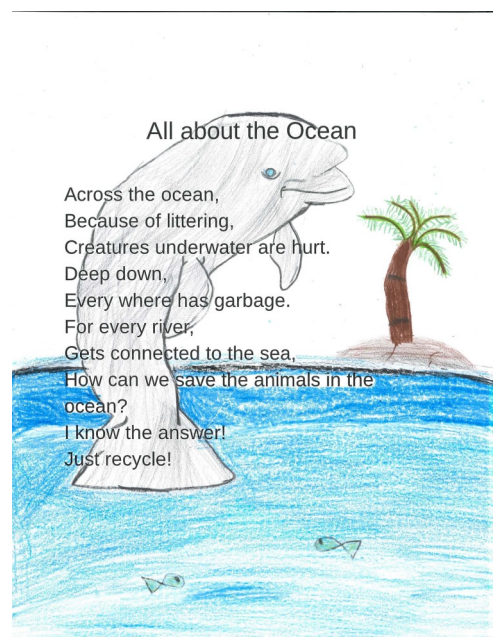
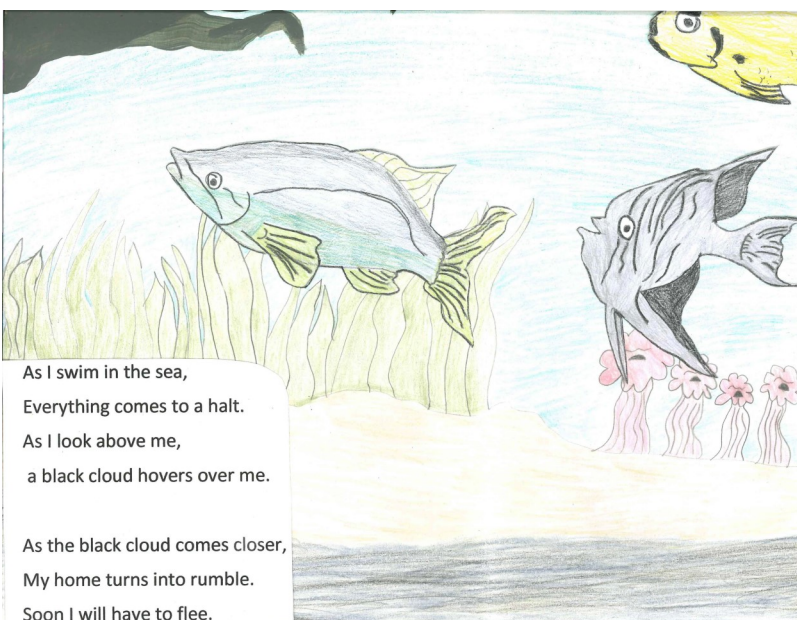
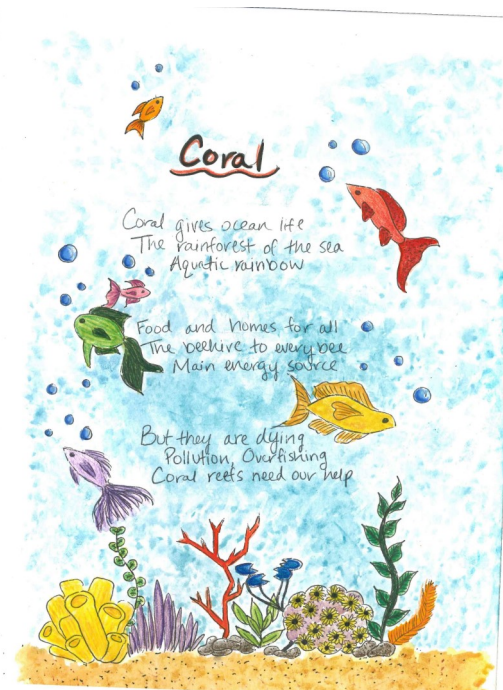
6th-8th Grade

Steven G. (7th Grade), California Middle School, Teacher: Mrs. Jennifer Edwards Poem Title: As I swim

9th-12th Grade

Nicolette B. (10th Grade), Allderdice High School, Teacher: Ms. McClelland Poem Title: Coral

Congratulations to all our winners!





Dear Academic ACS Pittsburgh Section Members,

The Pittsburgh Section of the American Chemical Society has budgeted funds to help encourage undergraduate/graduate student participation in national and regional ACS meetings. The awards are intended to help defray meeting registration and travel-related expenses (lodging, transportation, per diem) for eligible students. Awards will be made based on the scientific merit of the paper/poster to

be presented, financial need, and preference will be given to ACS members.

To apply for the funds, applicants should complete the attached application and return it by the relevant deadline. The deadlines for receipt of applications are as follows:

- **06/01 (for travel to be completed by 12/31)**
- **12/01 (for travel to be completed by 06/30)**

As noted on the application, students should include an abstract and confirmation (if received) of the paper/poster being accepted for the Meeting. In addition to the application form, applicants should include a recommendation letter from the PI of the project being presented and/or a recommendation letter from another and a personal statement as to the anticipated benefits of meeting attendance.

Applications can be made electronically (*preferred*) by emailing the application to Heather Juzwa

(hjuzwa@shimadzu.com or heather_sapko@hotmail.com) or by mailing a hard-copy application (Pittsburgh Section ACS Travel Grants / Heather Juzwa / Center / 321 Winners Circle / Canonsburg, PA 15317).

Since 2013, the Pittsburgh Section of the ACS has awarded up to four \$500 grants each year to aid our undergraduate/graduate student members in presenting papers or posters at ACS Meetings.

This is an ongoing program in our Section, and details will be updated on our website, (www.pittsburghACS.org), as necessary.

Applicants will be notified via email that their application was received. All efforts will be made to announce awards within two weeks of the application deadline, and all applicants will be notified of the final committee decisions. Our Section is looking forward to helping increase the participation of local students in ACS conferences. If you have any questions, please do not hesitate to contact me.

Sincerely,

Heather Juzwa, ACS Pittsburgh Section Student Travel Grants, Chair
Senior Field Sales Engineer, Shimadzu Scientific Instruments, Inc.



<i>Application Deadline</i>	<i>Travel Completion Date</i>
December 1 st	June 30 th (subsequent year)
June 1 st	December 31 st (same year)

Name of Applicant: _____

Name of Institution: _____

_____ Undergraduate Student / Year

_____ Graduate Student / Year

Mailing Address to Receive Payment if Awarded _____

Email: _____ Phone: _____

PI: _____

ACS Membership No.*: _____

**If you do not know your ACS number, please email hlijuzwa@shimadzu.com to receive it by email.*

Meeting Location: _____ Meeting Date: _____

Project Title: _____

_____ Paper Presentation _____ Poster Presentation

**Please attach a copy of your project abstract to the application.*

Has your project been accepted? Yes No

**Attach documentation regarding acceptance if received at point of application.*

Will this be your first presentation at an ACS national or regional meeting? Yes No

If no, please list conferences at which you have presented: _____

Purpose of grant: _____

Other funding sources (if any):

Personal Statement of anticipated benefits of meeting attendance

Has the applicant received a travel grant from the ACS Pittsburgh Section in the past? Yes No

If your application was selected, the Pittsburgh Section of the ACS would like you to write a short (one page) description of your activity upon completion of the conference for publication in our monthly newsletter, The Crucible, and on our website. The description is due within 30 days of the meeting attended.

I am willing to complete this report: Yes No

Signature: _____

Date: _____

Send completed hard-copy applications and supporting documentation to:

Pittsburgh Section ACS Travel Grants

Heather Juzwa

321 Winners Circle

Canonsburg, PA 15317

Business Directory

Services

Services

Services

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Treasurer

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Pittsburgh, PA 15237

treasurer@pittsburghacs.org

Crucible Deadline

The deadline for items submitted to The Crucible is the 15th of the month prior to publication. For example, all items for the September 2018 issue must be to the editor by August 15, 2018.

Volunteers Needed!

There are a number of volunteer opportunities in the Pittsburgh ACS section! If you are interested in volunteering, please contact Heather Juzwa at hjuzwa@shimadzu.com!



Society for Analytical Chemists of Pittsburgh CALLING NEW MEMBERS

Dues Only \$20.00, Call the SACP

Administrative Assistant at

412-825-3220 Ext. 212 **Right Now!**

The Crucible

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Get Connected!

Stay up-to-date on all the happenings of the Pittsburgh Section ACS

Section's Website:

www.pittsburghacs.org

Facebook Page:

Pittsburgh Section of the
American Chemical Society

Linked In:

Pittsburgh Section of the
American Chemical Society

Spectroscopy Society of Pittsburgh

- Professional Networking within the Spectroscopy Community
- Monthly Symposia by Prominent Researchers
- Promoting Science Education



To Join Call Amy: 412-825-3220 ext 212

The Crucible

A newsletter of the Pittsburgh Section of the American Chemical Society

124 Moffett Run Rd.

Aliquippa, PA 15001

Change of Address

If you move, notify the American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036.

To avoid interruption in delivery of your CRUCIBLE, please send your new address to Traci Johnsen, 124 Moffett Run Rd., Aliquippa, PA 15001. Allow two months for the change to become effective.

Pittsburgh Area Calendar

Fall Events will be posted in the September issue of The Crucible. You can Stay up-to-date on all the happenings of the Pittsburgh Section ACS by visiting the following:

Section's Website: www.pittsburghacs.org

Facebook Page: Pittsburgh Section of the American Chemical Society

Linked In: Pittsburgh Section of the American Chemical Society

Snapchat: Pittsburgh_acs

Twitter: Pittsburgh ACS

Instagram: pittsburgh_acs