



# The Crucible

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American Chemical Society – Pittsburgh Section

Volume CV, No. 8

April 2020

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## Contents

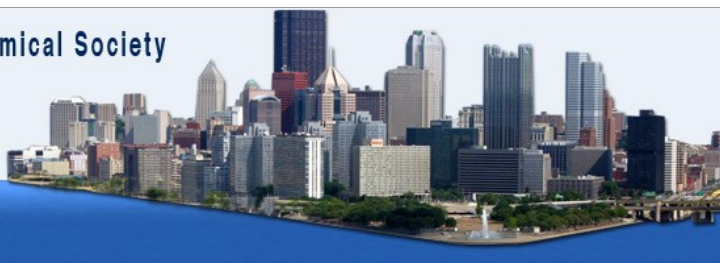
Call for Nominations: Pittsburgh and Distinguished Service Awards	1
SciMeetings: Online Platform for ACS Spring 2020 National Meeting	2
Congratulations to 50, 60, and 70-year ACS Members	3
2020 CCEW Illustrated Poem Contest	4
ETG April Meeting Announcement	5
2020 ACS Central Regional Meeting	6
ACS: Chemistry in Coronavirus Research	7
Free Journal Access by Carnegie Library – Advertisement	7
ACS On the Road	8
ACS Pittsburgh Section Travel Award Application	9-11
Business Page	12

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Pittsburgh Section of the American Chemical Society



Serving members since 1903



## 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.

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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/>

Please send all nominations (or questions about nomination process) to Pittsburgh Section Chair-Elect, Kevin Noonan, [noonan@andrew.cmu.edu](mailto:noonan@andrew.cmu.edu). Nominations are due no later than **Tuesday, September 1, 2020**.

## Now Available: Online Platform for ACS Spring 2020 National Meeting Presentations

In an effort to support the scientific community and researchers, ACS Publications in collaboration with other ACS divisions have launched [SciMeetings](#), an open-access virtual platform that will allow attendees whose abstracts were accepted for the now-cancelled ACS Spring 2020 National Meeting & Exposition in Philadelphia to share their posters and presentations virtually.



This open-access platform will expand the reach and impact of early-stage research and globalize professional networking through its online poster and presentation publication service. Visit [SciMeetings](#) today to view the latest research that has been uploaded to the site.

If you are a presenter whose abstract was accepted to the ACS Spring 2020 National Meeting & Exposition, and you are interested in submitting your research to SciMeetings, [visit us online](#) for more information, and [submit your research](#) by April 30.



## 2020 CCEW Illustrated Poem Contest Protecting Our Planet through Chemistry

The **Pittsburgh Local Section of the American Chemical Society (ACS)** is hosting an illustrated poem contest for students in Kindergarten through 12th grade. Entries must be sponsored by a local school or community group for verification purposes. This regional contest is open to students who live in the following Ohio, Pennsylvania, and West Virginia counties: **Ohio:** Jefferson; **Pennsylvania:** Allegheny, Armstrong, Beaver, Butler, Cambria, Clarion, Fayette, Greene, Indiana, Jefferson, Somerset, Venango, Washington, & Westmorland; **West Virginia:** Brooke, Hancock, & Ohio

**Contest Deadline: May 3, 2020 at 11:59 PM Eastern**

**Local Prizes:** \$50 1st Place in each of 4 grade categories: K-2nd, 3rd-5th, 6th-8th and 9th-12<sup>th</sup>

**Local Contact:** Michael Mautino, CCEW@pittsburghacs.org (Please use this e-mail address for questions only, please do not submit entries to it.)

**Submission:** Submit entries online at [bit.ly/CCEWpoems](http://bit.ly/CCEWpoems)

Winners of the Pittsburgh Local Section's Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win prizes!

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

**HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE**

**Possible topics related to sustainable chemistry include:**

Green chemistry	Environment	Pollution
Clean air and water	Natural resources	Waste

**Entries will be judged based upon:**

Artistic Merit - use of color, quality of drawing, design & layout  
Poem Message - fun, motivational, inspiring about yearly theme  
Originality Creativity - unique, clever and/or creative design  
Neatness - free of spelling and grammatical errors



**Contest rules:**

- All poems must be no more than 40 words, and in one of the following styles to be considered: Haiku, Limerick, Ode, ABC poem, Free verse, End rhyme, and Blank verse.
- Entries are judged based upon relevance to and incorporation of the yearly theme (Protecting Our Planet through Chemistry), word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.
- All entries must be original works without aid from others. Physical drawings may be scanned or captured via camera and submitted to the online form. Illustrations may be created using crayons, watercolors, other types of paint, colored pencils, or markers.
- The illustration may also be electronically created by using a digital painting and drawing app on a computer, tablet, or mobile device. If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form.
- The text of the poem should be easy to read and may be typed before the hand-drawn or digital illustration is added, or the poem may be written on lined paper, which is cut out and pasted onto the unlined paper with the illustration.
- No clipart or unoriginal images can be used.
- Only one entry per student will be accepted.
- Students must be sponsored by a school or another sponsoring group (e.g. Homeschool Association, Boys and Girls Club, Scout Troop, 4-H, etc.).
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners' names, likenesses, and entries for editorial, advertising, and publicity purposes.



*Congratulations!!!!*

## **American Chemical Society (ACS) 50/60/70 Year Members!**

### **50 year members**

Dr. Robert Levine  
Dr. Barry Van Gemert  
Dr. Stephen Weber

### **60 year members**

Mr. William Berkmeyer  
Mr. Edward Blair  
Dr. Toby Chapman  
Mr. John Frink  
Mr. Ronald Hahn  
Dr. John Hassell  
Dr. Susumu Ishida  
Dr. Donald McKelvey  
Mr. Theodore Siek  
Dr. Robert Witkowski  
Dr. Lymperios Yannapoulos

### **70 year members**

Mr. Walter Shlag  
Ms. Betty Sparr

*Luncheon Details Coming Soon!!!*

The Pittsburgh section of the ACS is excited to come together and celebrate this achievement! However, during this period of uncertainty, we want to make sure all will be safe. As the current Covid-19 situation sorts itself out, the section will post a future announcement concerning the luncheon details as well as personal invitations to these important members!



## Historical Carbon Footprinting & Implications for Sustainability Planning: *A Case Study of the Pittsburgh Region*

**Dr. Rachel Hoesly**

**ACS-Energy Technology Group**

**Thursday, April 23, 2020**

### **Abstract**

This presentation will discuss estimates of fossil-based CO<sub>2</sub> emissions and energy use from 1900-2000 for Allegheny County, PA. Total energy use and emissions increased from 1900 to 1970, reflecting the significant industrial, economic, and population growth that occurred in Allegheny County. From 1970 to 2000, Allegheny County experienced a 30% decrease in total emissions and energy use from peak values, primarily because of a decline in industrial activity (40% decrease in value added) and the loss of a quarter of its population. Despite these dramatic economic and demographic transitions, per capita emissions remained stable from 1970 to 2000, buoyed by relatively stable or slightly increasing emissions in the commercial and transportation sectors. Allegheny County's history suggests the scale of change needed to achieve local emissions reductions may be significant; given years of major technological, economic, and demographic changes, per capita emissions in 1940 were nearly the same in 2000. Most local governments are planning emissions reductions rates that exceed 1% per year, which deviate significantly from historical trends. Results suggest additional resources and improved planning paradigms are likely necessary to achieve significant emissions reductions, especially for areas where emissions are still increasing. <https://pubs.acs.org/doi/abs/10.1021/es203943g>

### **Biography**

**Dr. Rachel Hoesly** is a senior engineer at KeyLogic Systems Team supporting the Mission Execution and Strategic Analysis (MESA) contract with the National Energy Technology Laboratory and works in several areas including, energy markets and infrastructure analysis with a focus on electricity systems. Previously, Dr. Hoesly was a researcher Pacific Northwest National Laboratory – PNNL where she was a lead developer of the Community Emissions Data System (CEDS). A data system that develops global historical emissions data set for use in air quality and climate models. Emissions estimates include annual data for 9 emissions species from 1750 – 2014 for 221 countries/regions, 55 sectors, and 9 fuels spatially distributed to a global 0.5-degree grid. [www.globalchange.umd.edu/ceds/github.com/jgcri/ceds](http://www.globalchange.umd.edu/ceds/github.com/jgcri/ceds) Dr. Hoesly is an alumnus of Carnegie Mellon University (B.S. M.S., PhD) in Civil and Environmental Engineering.

**Cost is \$26** (cash or check), walk-ins are welcome but an RSVP with dinner selection is preferred.

**Dinner Menu:** Soup, salad and choice of: Lasagna, Chicken Romano, Spaghetti w/meatball, Manicotti. Coffee, tea, and soft drinks, included.

**RSVP by Monday April 20, 2020 to:** [ACS.ETG@gmail.com](mailto:ACS.ETG@gmail.com).

**Agenda:** *Check In:* 6:00-6:30 PM, *Dinner:* 6:30-7:15 PM, *Presentation* 7:30-8:15 PM

**Location:** [Lombardozi's Restaurant](#) - Bloomfield, 4786 Liberty Ave, Pittsburgh, 15224



## 2020 ACS Central Regional Meeting (CERM)

May 27-29

Greater Columbus Convention Center in Columbus, OH

[cerm2020.org](http://cerm2020.org)



The Central Region of the ACS consists of 25 local ACS sections, including the Pittsburgh section! The CERM is the premier showcase for chemistry educators, professional chemists, and chemical enterprises of all types and sizes within the central region. The Columbus local section of the ACS sponsors CERM 2020.

The theme for CERM 2020 is “Envision Tomorrow’s Chemistry” and will highlight emerging chemical discoveries and advances as we enter the next decade. Keynote speakers include Professor Samuel I. Stupp, Frederick Bertley, Ph.D., and Dr. Seble Wagaw.

Registration is still open.

ACS MEMBER REGISTRATION FEES	Advance (by April 24)	Regular (after April 24)	NON-MEMBER REGISTRATION FEES	Advance (by April 24)	Regular (after April 24)
<input type="checkbox"/> 50-Year Member	\$0	\$0			
<input type="checkbox"/> ACS Member*	\$150.00	\$200.00	<input type="checkbox"/> Non Member*	\$205.00	\$325.00
<input type="checkbox"/> Post-doctoral Fellow*	\$100.00	\$125.00	<input type="checkbox"/> Post-doctoral Fellow*	\$125.00	\$150.00
<input type="checkbox"/> Graduate Student*	\$50.00	\$65.00	<input type="checkbox"/> Graduate Student*	\$75.00	\$100.00
<input type="checkbox"/> Undergraduate Student*	\$30.00	\$45.00	<input type="checkbox"/> Undergraduate Student*	\$45.00	\$60.00
<input type="checkbox"/> Pre-College Teacher	\$30.00	\$50.00	<input type="checkbox"/> Pre-College Teacher	\$45.00	\$60.00
<input type="checkbox"/> Retired / Emeritus / Unemployed*				\$40.00	\$55.00
<input type="checkbox"/> High School Student				\$20.00	\$30.00
<input type="checkbox"/> GUEST (Max 1 per registrant) Please list Name of Guest: _____				\$75.00	\$100.00

# Chemistry in coronavirus research

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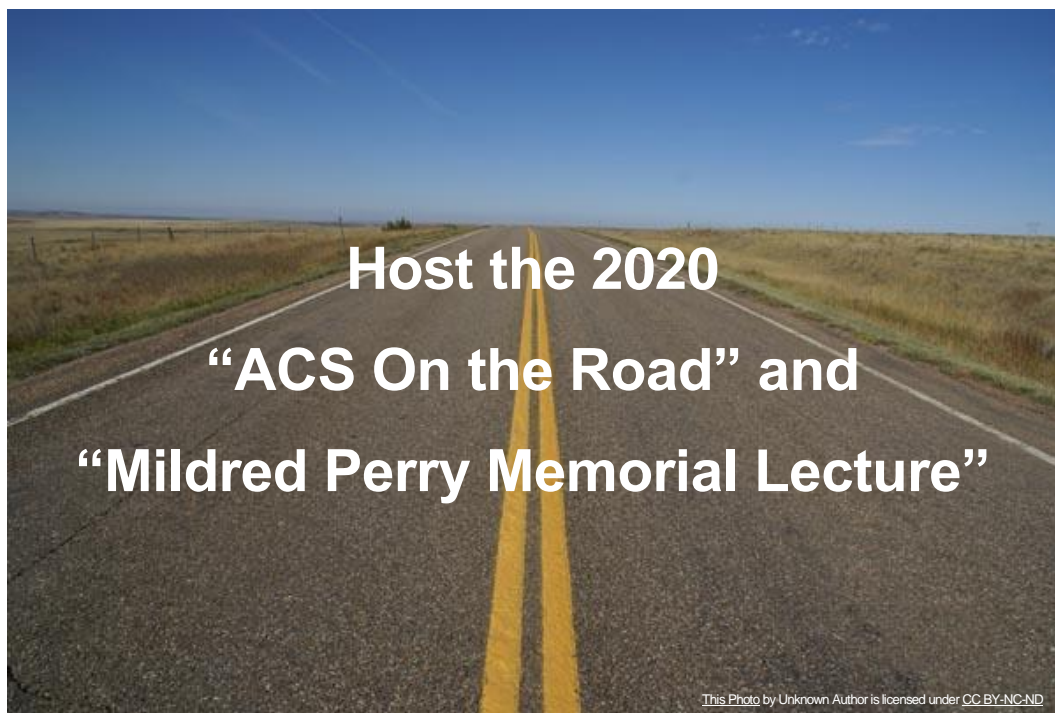
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**ACS** Local Section  
Pittsburgh



Each year the Pittsburgh local section features an "On the Road" event, which includes the "Mildred E. Perry" memorial lecture. This is a great opportunity for local section chemists to visit your site or campus. The organizers choose the speaker and program details. Past organizers would be happy to share their experience and websites if the host location is interested. This event was hosted by Saint Francis University in 2019 and featured Dr. Megan Matthews from the University of Pennsylvania. If your institution is located in the Pittsburgh Local Section and you would like to host the 2020 ACS "On the Road" event, please contact ACS Chair, Matthew Price ([price@calu.edu](mailto:price@calu.edu)).



## American Chemical Society Pittsburgh Section

[www.pittsburghacs.org](http://www.pittsburghacs.org)

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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](mailto:hjuzwa@shimadzu.com) or [heather\\_sapko@hotmail.com](mailto: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](http://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



American Chemical Society  
Pittsburgh Section

[www.pittsburghacs.org](http://www.pittsburghacs.org)

Application Deadline	Travel Completion Date
December 1	June 30 (subsequent year)
June 1	December 31 (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 [hljuzwa@shimadzu.com](mailto:hljuzwa@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. Photos are welcomed and encouraged.

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

Electronic copies of completed applications should be sent to [hljuzwa@shimadzu.com](mailto:hljuzwa@shimadzu.com) and [heather\\_sapko@hotmail.com](mailto:heather_sapko@hotmail.com). Be sure to place "Pittsburgh Section ACS Travel Grants" in the subject line.

## Pittsburgh Section Officers

### Chair

Matthew Price  
250 University Ave  
California, PA 15419  
724-938-4153  
[price@calu.edu](mailto:price@calu.edu)

### Secretary

Sara Smith  
90 Emerson Ln  
Bridgeville, PA 15017  
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### Treasurer

Evonne Baldauff  
51 W. College St.  
Waynesburg, PA 15370  
724-852-7617  
[ebaldauff@waynesburg.edu](mailto:ebaldauff@waynesburg.edu)

## 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](mailto:hjuzwa@shimadzu.com)!

## The Crucible Deadline

The deadline for items submitted to The Crucible is the 20<sup>th</sup> of the month prior to publication. For example, all items for the May 2020 issue must be to the editor by April 20<sup>th</sup>, 2020.

## The Crucible

The Crucible is published monthly, August through May. All statements and opinions expressed herein are those of the editors or contributors and do not necessarily reflect the position of the Pittsburgh Section.

Design Editor: Alysia Mandato, [crucible@pittsburghacs.org](mailto:crucible@pittsburghacs.org)



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Half Page	\$75	\$70	\$60	\$45
3.5" x 2"	\$50	\$45	\$25	\$20

## ACS Member-Get-a-Member

Recruit a new member to the American Chemical Society and receive a free 2020 Periodic Table of the Elements blanket!

See [here](#) for more information

## ACS Regional Awards – Apply Today!

More information can be found [here](#)