



Pittsburgh Section of the American Chemical Society
Volume CX, No. 9
April 2024

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Get to Know A Member – Amalene Cooper-Morgan, Ph.D.



1. What is your work and ACS (if applicable) title?

Chair; Associate Professor of Chemistry at Seton Hill University
Committee on Public Relations and Communications, Associate; Women Chemist Committee,

2. How many years have you been in the ACS?

4 years

3. What is the biggest benefit of ACS Membership?

Opportunities for professional development and the chance to have an impact on western Pennsylvania's scientific community.

4. What did you want to be when you were a child?

A doctor. I was 8 years old when my mother suffered a stroke and I remember talking to her doctor and asking him why he thought the medication he prescribed my mother would work, his response was, "It just does." Perhaps it seemed the best response to give to a little girl, however it moved something in me. At that time, I had no idea who scientists were, but I made up my mind that I was going to grow up to know how certain things in our bodies work. Currently, I teach about chemical reactions in the body.

5. What made you fall in love with Chemistry?

I grasped that I could rely less on memorization and more on using logic to figure things out.

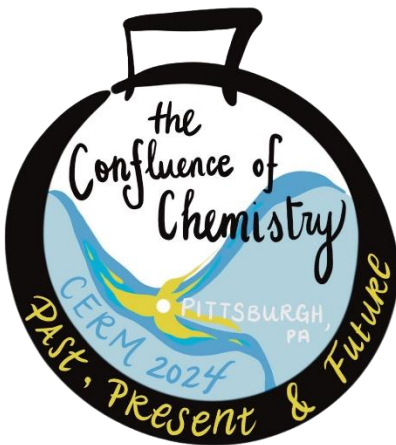
6. What is your favorite part about your career or job?

My favorite part of my job is mentoring. Mentoring is sometimes overlooked but it is a crucial part of the work we do as stakeholders in higher education.

Do you want to be our featured member? Please email hljuzwa@shimadzu.com to get onto the schedule!

7. Which chemist, past or present, would you like to meet and why?

I would have liked to have met St. Elmo Brady. He researched the acidity of carboxylic acids and was the first African American to earn a Ph.D. in chemistry in the United States. I believe his accomplishment is a lesson in resilience in a discipline where historically African Americans are underrepresented. I also admire the commitment he showed to teaching and mentoring.



2024 ACS Central Regional Meeting Call for Award Nominations

Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences

The purpose of this award is to recognize individuals and/or institutions who have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region.

E. Ann Nalley CERM Region Award for Volunteer Service to the American Chemical Society

The purpose of this award is to recognize the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their Regional Activities.

DivCHED High School Teaching Award

The purpose of this award is to recognize, encourage, and stimulate outstanding teachers of high school chemistry in the Central Region.

All applications are due by August 1, 2024. More information about each award, including application instructions, can be found at acscerm2024.org.

Call for Nominations

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.

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. Nomination packets and more information about the awards, including information on past winners, can be found on the Pittsburgh ACS website: <https://pittsburghacs.org/awards/>

Please send all nominations (or questions about nomination process) to Pittsburgh Section Chair-Elect, Samuel Leung, sleung@berkeley.edu, by August 1, 2024.



2024 CCEW Illustrated Poem Contest Get a Charge Out of Chemistry

The Pittsburgh Local Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in kindergarten through 12th grade.

Contest Deadline: Sunday, April 28, 2024, at 11:59 PM EST

Prizes: \$50 for 1st place winners in each of four grade categories: K-2, 3-5, 6-8, and 9-12

Contact: Alysia Mandato, CCEW Coordinator, ccew@pittsburghacs.org

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, "**Get a Charge Out of 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 the battery theme include:

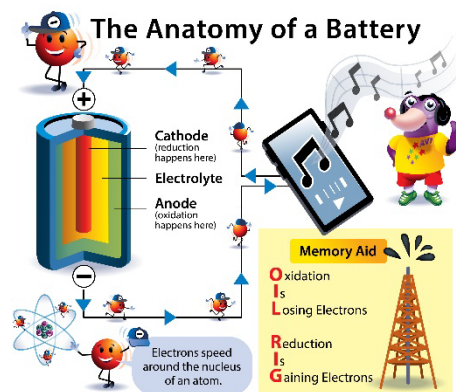
- Alkaline batteries
- Anode
- Atoms
- Cathode
- Disposable batteries
- Electrons
- Rechargeable batteries
- Renewable energy

Entries will be judged based upon:

- Artistic Merit - use of color, quality of drawing, design, and 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 CCEW theme, 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. Poems may be submitted by hand on an unlined sheet of paper not larger than 11" by 14" or scanned and sent via email. 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.
- 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; all entries must include an entry form.
- If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form (No AI).
- Acceptance of prizes constitutes consent to use winners' first name and last initial, along with the name of the ACS Local Section, on the ACS web pages and in the magazine, Chemical & Engineering News



Call for Outreach Volunteers!

GET A **CHARGE** OUT OF CHEMISTRY



April 21-27, 2024 | #CCEW



The Pittsburgh Section of the American Chemical Society needs volunteers to share the chemistry of batteries with the community during Earth Month! We are collaborating with the Pittsburgh Parks Conservancy at their [Earth Month celebration events](#).

Saturday, April 6 from 12 PM – 3 PM at Westinghouse Park in the Point Breeze neighborhood

Saturday, April 20 from 12 -3 PM at McKinley Park in the Beltzhoover neighborhood

All materials and training will be provided. Please contact Chemists Celebrate Earth Week coordinator, Alysia Mandato, at atm75@pitt.edu if you are interested in volunteering!



The Women Chemists Committee of the Pittsburgh
Section of the American Chemical Society
Presents

A CAREER PANEL LUNCHEON



SATURDAY, APRIL 20, 2024

12 PM - 2 PM

Chevron Science Center

University of Pittsburgh

219 Parkman Ave. Pittsburgh, PA 15213

[Register here](#)

Register by Monday, April 15
Registration Fee \$10



Environmental Lecture VIII

Fluorobridged Rare Earth Metal Organic Frameworks and the Destruction of PFAS

April 10, 2024, 12:00-1:00pm (EST)



Kenneth Balkus, Ph.D.
Professor
University of Texas at Dallas



Abstract: The diverse coordination environments as well as optical and magnetic properties of rare earth (RE) metal ions has generated interest in rare earth metal organic frameworks (MOFs). The RE nodes composed of metal clusters are typically linked by hydroxo or oxo bridges. However, it was recently discovered that fluorine can also be incorporated into the RE clusters. The synthesis and characterization of several fluorobridged RE MOFs will be described including mixed oxo/fluoro bridged clusters as well as mixed metal clusters. The advantages of fluorobridged clusters versus oxo/hydroxo bridged will be discussed include greater stability and variation in framework charge as well as changes in adsorption, optical and magnetic properties. The RE metal ions can extract the fluorine from a variety of organofluorine molecules including perfluoralkyl substances (PFAS). A potential commercial system based on RE ions reacting with PFAS adsorbed on carbon will be presented. A discussion of this chemistry and a possible mechanism will be presented.

Bio: Dr. Kenneth Balkus graduated from WPI in 1982 with a BS degree in chemistry. He then earned a PhD in Inorganic Chemistry from the University of Florida in 1986 under the direction of Russ Drago. His graduate studies focused on catalysis and oxygen binding. After a postdoctoral appointment at the University of Pennsylvania in the area of organometallic chemistry, Dr. Balkus joined the faculty at the University of Texas at Dallas as an Assistant Professor of Chemistry and Biochemistry. He is also affiliated with the Department of materials Science and Engineering. He rose through the ranks and was promoted to Full Professor in 1997. Most recently he completed a term as Head of the Department of Chemistry and Biochemistry. He has also served as editor for 2 journals. Dr. Balkus has been recognized with numerous awards including an NSF Presidential Young Investigator Award. He was also named a Fellow of the American Chemical Society. Dr. Balkus has published more than 350 peer reviewed papers and book chapters. His research has focused on porous materials with applications in areas such as catalysis, membranes, energy storage and drug delivery. Much of this work has resulted in patented technology. Dr. Balkus is a co-inventor on 45 patents issued or pending many of which have been licensed. In particular, Dr. Balkus is co-founder of DB Therapeutics, a company developing cancer therapies based on radiotherapeutic bandages invented in his lab.

Any questions, contact dr.Ronghong.lin@gmail.com

[Click here to register](#)

Seton Hill
UNIVERSITY

FSP
FUTURE SCHOLARS
PROGRAM



SUNIPA GOSWAMI, PH.D.
CANDIDATE; CARNEGIE MELLON
UNIVERSITY



CHEMISTS
CELEBRATE
EARTH WEEK

APRIL 26, 2024 @ SETON HILL
UNIVERSITY

FUTURE SCHOLARS PROGRAM



CELEBRATE THE
PARTNERSHIP BETWEEN THE
FSP AND K-12 SCHOOLS



LEARN MORE ABOUT
BATTERIES AND HOW THEY
IMPACT OUR LIVES



ENJOY A DEMONSTRATION
FROM A WCC MEMBER,
SUNIPA GOSWAMI

ACS Travel Grant Recipient: Julianne “JJ” Dee

From March 16th – 20th 2024, a group of myself and peers were able to attend the Spring National ACS Meeting in New Orleans, LA. The spring meeting offered the ability to connect with industry professionals, those in higher education, and learn more about chemistry in the work force. I was able to attend the conference with four other Saint Francis University students and one chemistry professor. While the each day was extremely busy with talks and poster sessions, ultimately the conference offered a great deal of insight and direction into my future career.



Figure 1: My peers from right to left: Sarah Evans, Alexandra Ochs, Julianne Dee, Josh Koval, Mason Hogue, Dr. Ashley Smith- Diemler in front of the Proud to be a Chemistry sign.

Sunday March 17, 2024

On Sunday, I had the opportunity to attend the Chemists with Disabilities Committee meeting as a recipient of their travel award. The committee meeting was extremely interesting in seeing how ACS is working to make chemistry labs and the ACS more accessible for everyone. During the meeting, I had the opportunity to present about my journey and career aspirations. The meeting offered a great opportunity to make connections and mentors with those on the committee. After the committee meeting, my fellow peers and I went to the student chapter awards. Saint Francis University was recognized as an Outstanding Student Chapter as well as given the Green Chemistry Distinction. After the awards, we were able to stay for the student social and connect with other student chapters for possible collaboration.

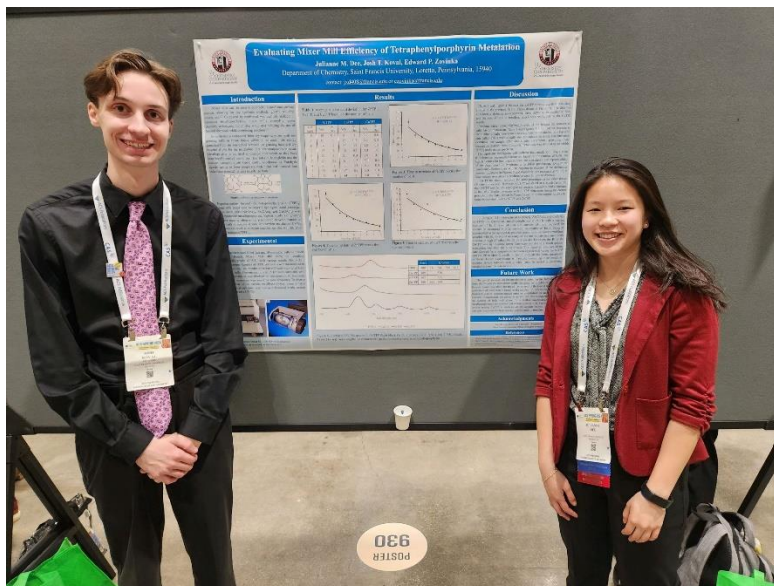


Figure 2: Myself and fellow research, Josh Koval, in front of our poster at the undergraduate poster session

Monday March 18, 2024

In the morning on Monday, I had the opportunity to attend “Practicing Green Chemistry and the Bench” which offered an insight into ensuring that labs at colleges are able to bring in green chemistry practices. Then, I was able to go to some talks about medical chemistry and research about targeting specific antigen receptors to determine if someone has a virus. After the morning sessions, my fellow researcher and I were able to present our poster and the undergraduate research poster session. The session offered a time to meet with students and professionals that were interested in green chemistry, metallo-porphyrins, and mechanochemistry. Once the poster session was completed, we walked around the Expo to see various companies and booths to see what different companies offered. The expo offered an incredible insight into the technology and various industries that people with chemistry backgrounds could venture into. Later that evening, we attend Sci-Mix with two of our students presenting our Chemistry Club Poster. Sci-Mix also offered the opportunity to see what various committees and resources ACS offered for undergraduate and professional students.



Figure 3: My fellow peers and I standing outside the Audubon Aquarium and Insectarium.

Tuesday March 19, 2024

On Tuesday, we spent a part of the morning going to talks. I went to talks on environmental chemistry and medicinal chemistry. They offered a great deal of insight into what graduate research looks like at different universities. Then, we spent the afternoon going to the Audubon Aquarium and Zoo with my fellow peers who were also attending the conference. Being able to explore parts of New Orleans, offered an incredible time to spend with my peers as well as see more of New Orleans.

**SSP/SACP Joint Meeting
Wednesday, April 24, 2024
Duquesne University Power Center**



5:00 PM – Social Hour
6:00 PM – Dinner
6:45 PM – Business Meeting
7:15 PM – Technical Program

SSP Technical Program

“Application of Particle Correlated Raman Spectroscopy (PCRS) for the Forensic Examination of Soil Minerals”

Dr. Brooke W. Kamrath

Professor, University of New Haven

Assistant Director, Henry C. Lee Institute of Forensic Science



Biography:

Brooke W. Kamrath, Ph.D., ABC-GKE is a Professor of Forensic Science at the University of New Haven and the Assistant Director of the Henry C. Lee Institute of Forensic Science. She teaches a range of both undergraduate and graduate forensic science courses and has a varied research agenda that includes the uniting of microscopy with spectroscopy, applications of field portable instrumentation, the identification and characterization of microscopic samples of forensic interest, the statistical analysis of trace, pattern and impression evidence, and investigations into the significance of physical evidence. Additionally, she works as a consulting criminalist, where she is a qualified expert in both state and federal courts. She is a member of several professional organizations, and is the past-president of the New York Microscopical Society (NYMS), and on the Governing Boards of the Society for Applied Spectroscopy (SAS) and the Eastern Analytical Symposium (EAS). Dr. Kamrath also serves as an Associate Editor for the Journal of Forensic Sciences and for *Applied Spectroscopy Practica*. Dr. Kamrath is the co-editor of the two-volume book *Portable Spectroscopy and Spectrometry* and the co-author of the books *Blood Traces* (2021) and *Solving Problems with Microscopy: Real-life Examples in Forensic, Life and Chemical Sciences* (2023). She has also co-authored 2 laboratory manuals, 9 book chapters, 4 encyclopedia articles, over 20 journal articles, and over 100 professional conference presentations.

Abstract:

Soil is a valuable trace which, when properly recognized, analyzed and interpreted, has the potential to provide investigative leads and to associate an unknown specimen with a collected known. Although this is widely recognized by criminalists with a plethora of case examples, criticisms of forensic soil analysis as being subjective, too labor-intensive, and too time-consuming have resulted in a considerable decline in its use in forensic investigations. As a result, exemplar soil samples are not being collected in the field which eliminates the possibility of later laboratory analysis. Further, forensic laboratories are not equipped with criminalists who are currently capable of performing a comprehensive forensic soil

examination. Thus, the potential of soil traces is not being realized. The purpose of this presentation is to share our research steps and progress in developing a statistically-supported, automated, and objective analytical method for forensic soil analysis using particle correlated Raman spectroscopy (PCRS). PCRS, also known as particle driven or morphologically directed Raman spectroscopy (MDRS), is a novel yet reliable analytical technique that is capable of delivering particle size distribution and microscopic morphological characteristics for the particles present within a sample (e.g., minerals), and at the same time provides secure chemical identification. To develop PCRS for inclusion in a forensic soil workflow, the limitations and advantages of the method (e.g., dispersion, sample imaging and analysis, Raman spectroscopic analysis and interpretation) need to be evaluated, which has been the goal of the research that will be presented.

For complete details and to make a dinner reservation, please visit our society's website. Deadline for dinner reservations is Wednesday, April 17, 2024 by noon.

<https://chemistryoutreach.org/meeting/>



A Wicked Smart Choice!

Looking for a Spring 2025 meeting closer to home?
You've found it. Pittcon 2025 | Boston, March 1-5

Submit Your 2024 Proposal – Submission Deadline July 1, 2024

We are now accepting proposals for Invited Symposia and Organized Contributed sessions that align with our program tracks.



Bioanalytical &
Life Science



Cannabis &
Psychedelic



Environment &
Energy



Instrumentation &
Nanoscience



Pharmaceutical &
Biologics



Professional
Development

The Pittcon Program Committee is looking for key things:

- Research and innovations that are timely and relevant
- Diverse speaker lineup (industry, government, academia, entrepreneurs, experienced scientists, rising scientists, gender, racial, ethnic, etc.)
- Emphasis on fundamental and/or applied research while avoiding sales pitches.

The session descriptions that more strongly make the case in these three areas will have the best chance for a high-profile spot in the technical program.

For inquiries and proposal submissions,
please visit pittcon.org/call-for-participation

Pittcon[®]
Conference and Exposition



Have yinz ever wondered how the Hot Metal Bridge got its name?

Do you want to learn more about the history (and science!) of Pittsburgh's steel industry?



Carrie Blast Furnaces Tour

Join the SACP & SSP Continuing Education Committee for a journey through the Pittsburgh's industrial history.

Plan to arrive by 9:45 am for the tour. Be sure to dress for the weather, and wear closed-toe shoes! While the blast furnaces have been cold for quite some time, most of the tour is outside over uneven terrain.

Be sure to bring your signed Carrie Furnaces Waiver Form for the tour

The cost for the tour only is **\$10** per person. Tour + lunch is **\$20** (adult)

or Tour + Lunch is **\$15** (children 8-18 years old)

Questions?

Please contact info@chemistryoutreach.org

Who?

YOU!
(and a guest)

Children 8+ accompanied by adults are welcome.

Due to the nature of the site (uneven terrain, multiple flights of stairs) the tours are not wheelchair nor walker accessible and may be difficult to traverse for those with mobility issues.

What?

Two hour guided tour of the national historic landmark, followed by lunch at Hokkaido Seafood Buffet.

When?

Saturday, May 4, 2024
Tour: **9:45 am – 12 pm**
Lunch to follow

Where?

801 Carrie Furnace Blvd
Pittsburgh, PA 15218

4612 Browns Hill Rd
Pittsburgh, PA 15217

How?

Go to the Events page of our society website (chemistryoutreach.org) to register online **by April 24.**

Space is limited, register today!



CONTINUING EDUCATION SEMINAR

Building Mechanistically Sound Machine Learning Models for Environmental Applications

Prof. Huichun (Judy) Zhang
Frank H. Neff Professor in Civil &
Environmental Engineering
Case Western Reserve University



WHEN: Saturday, April 27, 2024, 12:00 – 2:00 pm
WHERE: T J Buffet Sushi and Grill Restaurant
(590 Pittsburgh Mills Cir, Tarentum, PA 15084)
COST: \$10 for regular, \$5 for undergraduate students

Go to the Events page of our society
website to register (chemistryoutreach.org)

Abstract: Environmental-related chemical reactions have been extensively studied, but accurately modeling the kinetics of chemical reactions under different conditions remains highly challenging. Existing research often relies on traditional Quantitative Structure-Activity Relationships (QSARs), but these modeling approaches typically require complex feature engineering. In recent years, machine learning has increasingly become a highly promising tool for modeling chemical reactions because it not only achieves better results than traditional methods but also can utilize diverse chemical representations. Here, we present several recent examples to demonstrate how machine learning can be used to model different chemical reactions. In this presentation, we will focus on how to develop reliable machine learning models based on small datasets through careful data preprocessing and extensive feature engineering, aiming to capture changes in chemical reactivity by considering as many important features as possible, even in the case of a small dataset. Examples include aerobic biodegradation, advanced oxidation processes, as well as non-abiotic reduction and adsorption of organic and inorganic compounds. We will also discuss recent predictive models for the extent of harmful algal blooms in Lake Erie, one of the Great Lakes.

Bio. Dr. Huichun (Judy) Zhang is the Frank H. Neff professor in the Department of Civil and Environmental Engineering at Case Western Reserve University. She earned her Ph.D. from Georgia Institute of Technology and her B.S. and M.S. from Nanjing University. Her research focuses on the fate and transformation of environmental contaminants in natural and engineered aquatic environments and the removal of organic contaminants from contaminated water. Her recent research areas also include predictive modeling for contaminant reactivity and sorption using machine learning tools. Dr. Zhang has published in numerous journals, such as *Chemical Reviews*, *Environmental Science and Technology*, and *Water Research*. She has received seven competitive research grants from the NSF as the PI, and directed research projects for many other agencies and industry. She is an Associate Editor for *ACS ES&T Water* and a member of AEEP Board of Directors. She is a past recipient of Nanova/CAPEES Frontier Research Award, CAPEES Award for Environmental Application of AI/ML, and ES&T Best Paper Award, among others.



American Chemical Society Pittsburgh Section

www.pittsburghacs.org

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 (hljuzwa@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



American Chemical Society
Pittsburgh Section

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 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 and heather_sapko@hotmail.com. Be sure to place "Pittsburgh Section ACS Travel Grants" in the subject line.



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.

Editor: Sarah Scrivener, crucible@pittsburghacs.org

2024 Pittsburgh Section Officers

Chair	Alysia Mandato atm75@pitt.edu
Chair-Elect	Samuel Leung samuel.leung@braskem.com
Secretary	Ronghong Lin dr.ronghong.lin@gmail.com
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Treasurer-Elect	Niharika Botcha nbotcha@andrew.cmu.edu
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Councilors	Kim Woznack Rich Danchik Haitao Liu Kristin Nuzzio

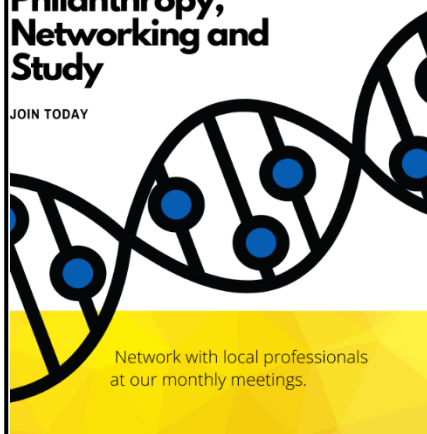
Spectroscopy Society of Pittsburgh



chemistryoutreach.org

Science Outreach through Philanthropy, Networking and Study

JOIN TODAY



Network with local professionals at our monthly meetings.

Society for Analytical Chemists of Pittsburgh
chemistryoutreach.org



Advancing Analytical Chemistry through Science Education

JOIN TODAY



Network with local professionals at our monthly meetings.

Advertise in The Crucible

	1X	3X	6X	10X
Full Page	\$120	\$115	\$100	\$75
Half Page	\$75	\$70	\$60	\$45
3.5" x 2"	\$50	\$45	\$25	\$20

Volunteer with Us!

We are always looking for new people to join the Pittsburgh Section Executive Committee. Email our Chair to inquire about opportunities.

The Crucible Deadline

The deadline for items submitted to The Crucible is the 25th of the month prior to publication. For example, all items for the February 2024 issue must be to the editor by January 25th, 2024.

ACS Regional Awards – Apply Today!

More information can be found [here](#)