



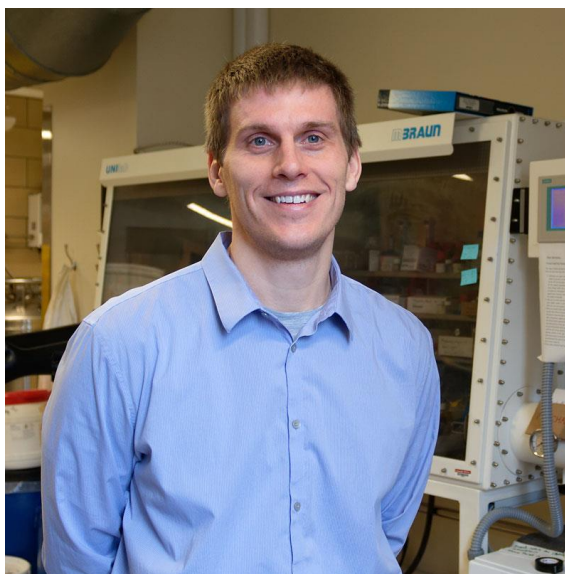
Pittsburgh Section of the American Chemical Society
Volume CX, No. 10
May 2024

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Get to Know A Member – Kevin Noonan, Ph.D.



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

ACS: Director ACS Pittsburgh Local Section
Work: Associate Professor of Chemistry

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

I have been an ACS Member for 12 years. I have been involved in the local section for the past 5 years.

3. What is the biggest benefit of ACS Membership?

The connections. I think in particular I have found that connecting with the local section has been amazing for meeting fellow chemists in the local community. Everyone has different areas of expertise with a mutual interest in this physical science.

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

I probably wanted to be an athlete of some kind, though I always loved science classes in school. My favorite sports growing up were basketball and volleyball, so probably a basketball player.

5. What made you fall in love with Chemistry?

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

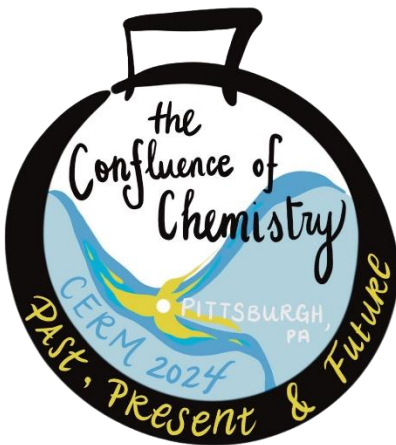
My high school chemistry teacher was really fantastic. Mr. Spencer had a way of making each class fun and interesting so it was always a class I just enjoyed going to. In University, I spent a little time undeclared as a major, but I elected to take physical and inorganic chemistry because the classes looked interesting. After completing those courses, I started to think maybe this is a good place for me.

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

My high school chemistry teacher was really fantastic. Mr. Spencer had a way of making each class fun and interesting so it was always a class I just enjoyed going to. In University, I spent a little time undeclared as a major, but I elected to take physical and inorganic chemistry because the classes looked interesting. After completing those courses, I started to think maybe this is a good place for me.

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

Stephanie Kwolek. I would love to hear more about her time at Carnegie Mellon (before it was Carnegie Mellon) and her time at Dupont and the discovery of Kevlar.



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.

Environmental Lecture IX

Tire-Abrasion Particles In The Environment

May 1, 2024, 12:00-1:00pm (EST)



Reto Gieré, PhD
Professor, Earth and
Environmental Science,
University of Pennsylvania



Abstract: Driving a vehicle on a road is inevitably associated with the generation of tire-abrasion particles. Annually, nearly six million tons of this material are released into the environment globally. Most of the tire debris is encrusted to variable extent with other particles, which are derived from brake and road wear, as well as from soil. First emitted into the atmosphere or deposited onto the road surface, these tire-abrasion particles are subsequently transported by wind and water to different environmental compartments, whereby road runoff plays a crucial role in the distribution. Once in the environment, these particles interact with air, light, and water, which triggers degradation and concomitant release of crucial tire components, such as zinc and various organic tire additives. The tire-abrasion particles and the leachates derived from them during their degradation in the environment can cause various biological responses in aquatic and terrestrial biota, as determined by numerous ecotoxicological studies. Challenges exist with the identification and quantification of the abundance of tire-abrasion particles in the various environmental compartments, the determination of their toxicity, and with the reduction of both their emission and immission into the environment.

Bio: Reto Gieré is a Professor of Earth and environmental science at the University of Pennsylvania. He investigates Earth materials, their response to geological forces, and their interaction with the environment and humans. He is engaged in research projects around the world and is dedicated to promoting the health of our fragile planet through teaching, mentoring and research. He obtained his Ph.D. at ETH Zürich (Switzerland), was a professor at Purdue University (USA), École Normale Supérieure (Paris), and the Universities of Basel (Switzerland), Freiburg (Germany) and Siena (Italy), and a visiting researcher at the Australian Nuclear Science & Technology Organisation and at Argonne National Laboratory (USA). He is Editor of Journal of Petrology, Chief Editor of European Journal of Mineralogy, a Fellow of the Mineralogical Society of America and the Geological Society (London), an Honorary Member of the Mineralogical Society of Slovakia, and received an Honorary Doctorate from the Université de Haute-Alsace in France.



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!



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

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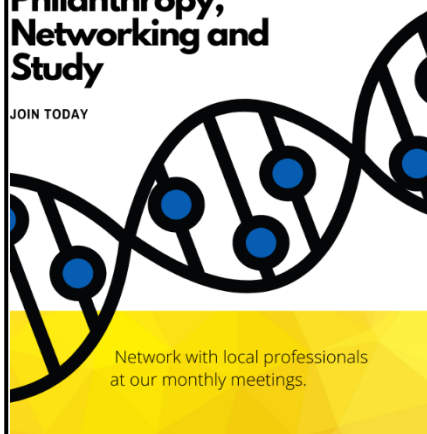
Spectroscopy Society of Pittsburgh



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](#)