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American Chemical Society - Pittsburgh Section

The Crucible

Volume CV, No. 5

January 2020

ACS Pittsburgh Section Welcomes 2020 Chair Matthew Price



Matthew joined the Chemistry and Physics Department at California University of PA in the fall of 2004. Matthew's main instructional load consists of Organic and Biochemistry courses. Matthew has been a member of the American Chemical Society since 1998, serving in the Pittsburgh section as secretary in 2015 and chair-elect in 2019. As chair, Matthew will focus on increasing outreach to and participation of the regional membership of the society. He will also focus, with the help of the advisory committee, on initiating preparations for the ACS Central Regional Meeting in Pittsburgh in 2023.

[Read More](#)

Congratulations to our Newly Elected Officers for 2020

Chair-elect:

Dr. Kevin Noonan

Secretary-elect:

Dr. Sean Garret-Roe

Councilors:

Dr. Kimberly Woznack

Dr. Richard Danchik

We would also like to thank everyone who voted in the election. There was an increase in participation this year as we transition to the electronic-only ballot format!

ACS Pittsburgh Section Mission

To advance the broader chemistry enterprise and its practitioners for the benefit of Pittsburgh region and its people

Pittsburgh Section Celebrates 2019 Pittsburgh Award Winner Michael Mautino at Annual Awards Banquet

The Pittsburgh Section has been giving out the Pittsburgh Award since 1932. The award recognizes 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.

[Read More](#)

Congratulations to 2020 Nichols Medalist Dr. Krzysztof Matyjaszewski

Former Pittsburgh Award Winner, Dr. Krzysztof Matyjaszewski has been named the 2020 Nichols Medalist. This distinguished award, established in 1902 by Dr. William H. Nichols, recognizes original research in chemistry and was the first award authorized by the American Chemical Society. Investigators who have published a significant and original contribution in any field of chemistry during the five calendar years preceding the presentation meeting are eligible for consideration by the Nichols Medal Jury. Congratulations, Kris!

SACP/SSP January Meeting

Wednesday, January 8, 2020

Duquesne University

SSP Technology Forum 5:30 PM

“Sensing the Future – Combining Wearables, AI, & IoT”

SACP Technical Program 7:45 PM

“Designer Separations with Smart Nanomaterials”

[Reservations](#)

[Read More](#)

SACP/SSP February Meeting

Wednesday, February 12, 2020

Duquesne University

SSP Technology Forum 5:30 PM

“Medical Cannabis in PA: A Scientist Perspective”

SACP Technical Program 7:45 PM

**“Development/Deployment of Inexpensive, Robust
Instruments for Combating Disease on a Global Scale”**

[Reservations](#)

[Read More](#)

ACS Energy Technology Group January Meeting

Thursday, January 16, 2020

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

Lombardozzi's Restaurant

Check In: 6:00-6:30 PM

Dinner: 6:30-7:15 PM

Presentation: 7:30-8:15 PM

RSVP to ACS.ETG@gmail.com

[Read More](#)

2020 Employment Workshop: Job Searching for STEM Professionals

Saturday, February 22, 2020

Maurice Lecture Hall, Mellon Hall
Duquesne University
8:30 AM - 3:30 PM
Register by email: imperat1@duq.edu

[Read More](#)

Host the 2020 ACS "On the Road" Event

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. 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).

[Read More](#)

[Pittsburgh Section ACS Travel Award Information and Application](#)

[Pittsburgh Section Business Page](#)



A newsletter of the Pittsburgh Section of the American Chemical Society

Website:
<https://www.pittsburghacs.org>

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Pittsburgh Section of the American Chemical Society · 219 Parkman Ave · Pittsburgh, PA 15260 · USA

ACS Pittsburgh Section Welcomes 2020 Chair Dr. Matthew Price

Matthew joined the Chemistry and Physics Department at California University of Pennsylvania in the fall of 2004. Matthew's main instructional load consists of Organic and Biochemistry courses, and he also participates in the chemistry program's integrated laboratory and research program. Matthew has participated in the department's ACS accreditation efforts, has served as Chemical Hygiene officer in the department since 2008, and has served as department chair of the Chemistry and Physics Department at CalU since 2014. Matthew has also been actively involved in the General Education committee at CalU since 2008, serving as assessment coordinator (2009-present) and vice-chair (2012-2017) and as Chair (2017-2019).

Matthew received a B.S in Chemistry in 1995 from Adams State College in Alamosa, CO and a Ph.D. in Organic Chemistry from the University of Utah in 2002 under the direction of Cynthia Burrows in the area of polymeric bioconjugates in gene transfection. While at Utah, Matthew received the NIH Biological Chemistry Training Fellowship. Upon completion of his graduate studies, he conducted proprietary research into polymeric drug formulations at a biotechnology company in downtown Salt Lake City until accepting a position as a visiting assistant professor at Earlham College in 2003-2004.

Matthew joined the Society for Analytical Chemists of Pittsburgh in 2009 and has been an active member serving as an advisor in the student affiliates and on various committees, including National Chemistry Week committee (chaired in 2013-2014). Matthew has worked as staff and presented research with undergraduates at PittCon over the past three years. Matthew has also been a member of the American Chemical Society since 1998, serving in the Pittsburgh section as secretary in 2015 and chair-elect in 2019.

As chair, Matthew will focus on increasing outreach to and participation of the regional membership of the society. He will also focus, with the help of the advisory committee, on initiating preparations for the ACS Central Regional Meeting in Pittsburgh in 2023.

The Pittsburgh Section has been giving out the Pittsburgh Award since 1932. The award recognizes 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.

2019 Chair-Elect, Dr. Matthew Price, introduced our 2019 winner, Michael Mautino. Mike, who has won National ACS Awards for his National Chemistry Week and WPTAG Programs for over 15 years, is one of only 3 people to win both the Distinguished Service and Pittsburgh Awards.



Channeling Fred Rogers, Mike inspired banquet attendees to be kind and to remember our own mentors for giving us a chance in our own career. Congratulations, Mike, and thanks for all you do for our section and the scientific community!





From left to right: 2013 winner Dr. David Waldeck, Michael Mautino, 2011 winner Dr. Kurt Olson

It is customary to also honor our Distinguished Service Award winner on this night. In 2019, no award was given.



Former Distinguished Service Winners Heather Juzwa and Mike Mautino

Society for Analytical Chemists of Pittsburgh Spectroscopy Society of Pittsburgh

January Meeting

Wednesday, January 8, 2020

Duquesne University

SSP Technology Forum 5:30 PM

SACP Technical Program 7:45 PM

SSP TECHNOLOGY FORUM

“Sensing the Future – Combining Wearables, AI, & IoT”

Ryan O’Shea, Founder & Host of Future Grind

Abstract:

Decreasing size, increasing capabilities, and diminishing costs mean that sensors are becoming ubiquitous. They are in our homes, cars, offices, electronics, and even on and sometimes in our bodies. All of these sensors are generating data, and this data needs to be analyzed to identify valuable information and actionable insights. The sheer amount of data, however, makes this a daunting and often impossible task for humans. At a certain scale, the best method of making sense of this data is leveraging the capabilities of machine learning. Because of this, the futures of sensors, Internet of Things devices, and artificial intelligence are largely interconnected and interrelated - the future success of one is largely dependent on the future success of the others

This high-level, largely non-technical presentation will provide an overview on how sensors are being used today, their relationship with Internet of Things (IoT) devices, and how machine learning and artificial intelligence are being used to analyze the data they generate. We'll also explore the future applications and implications of these sensors, as well as the rise of smart watches, smart clothing, smart tattoos, and implantable devices. Beyond this, we'll identify and discuss some of the ethical, societal, and regulatory concerns around issues of data privacy and security, bodily autonomy, "medicine", citizen science, and more.

Biography:

Ryan O’Shea is an entrepreneur and futurist speaker from Pittsburgh, Pennsylvania. He is the host of Future Grind, a podcast and video series that explores the ethics and implications of emerging science and technology. Ryan currently serves as the spokesperson for Grindhouse Wetware, a group specializing in technology to augment human capabilities. Ryan is also a founder of the Human Augmentation Institute, an organization focused on upholding bodily autonomy and ensuring that any efforts in human augmentation are done ethically, safely, and responsibly. In 2017, Ryan co-founded the artificial intelligence startup Behavior, which uses machine learning and automated just-in-time intervention to solve the problem of addiction. Behavior has been named a Top 10 team in the \$5 Million IBM Watson AI XPRIZE, and has received funding from the National Institutes of Health (NIH), the National Science Foundation

(NSF), and others. Ryan's thought leadership on the topic of futurism has led to his inclusion in multiple national and international documentaries, television programs, books, and magazines, and he has produced and given talks on the topic of emerging science and technology at conferences around the world including VivaTech in Paris, France, MakerFaire Rome in Rome, Italy, DEF CON in Las Vegas, Nevada, the Medical Entrepreneur Startup Hospital in Berlin, Germany, the Community Bio Summit at MIT Media Lab in Boston, Massachusetts, and many more. Ryan has represented NASA and CalTech's Jet Propulsion Laboratory as a Solar System Ambassador and serves both as a World Economic Forum Global Shaper and an ambassador for Pittsburgh AI. He is a graduate of the University of Pittsburgh and currently sits on the boards of numerous non-profits in Western Pennsylvania.

SACP TECHNICAL PROGRAM

“Designer Separations with Smart Nanomaterials”

Dr. Lisa Holland, Professor of Chemistry,
C. Eugene Bennett Department of Chemistry, West Virginia University

Abstract:

Capillary electrophoresis separations play an important role in challenging bioanalyses. With new materials and strategies, this separation technique is prominent in next generation therapeutics and in shedding light on physiological systems. This presentation will reveal the role of biocompatible nanomaterials and instrumental advances to leverage the high efficiency and throughput of capillary separations. Advances in this technology overcome barriers to universally analyzing proteins, which are among the most diverse class of physiologically relevant biomolecules. In particular, protein isoforms and post-translational modifications will be addressed. A rapid, inexpensive, and automated method is demonstrated to successfully quantify modifications with N-glycans (e.g. fucosylation, sialylation, branching, and bisection), which are a result of both normal and aberrant physiological processes. With this advance subtle differences in proteins can be distinguished. The separation is facilitated with self-assembled nanogels in a capillary that also contains stationary zones of lectins and/or enzymes. The nanogel electrophoresis generates separation efficiencies of 500,000 plates and easily resolves positional isomers. Because this technology is biocompatible, native analyses are also feasible. The nanomaterial additives used for these separations have a thermally dependent viscosity, which provides a means to precisely control and position specific zones of enzymes and lectins within the capillary to both process and separate proteins in nanoliter volumes in an automated instrument. The nanogel supports successive reaction in a channel (i.e. in series) because the viscosity of nanophases minimizes dispersion. Each molecular affinity step of the analysis utilizes a small (~5 nL) re in the channel. Nanogel preparations are inexpensive, costing \$0.09 for 5 μ L. The structural features of proteins are identified and quantified without the need for standards. Moreover, the nanophases are compatible with UV absorbance, fluorescence, and mass spectrometry detection. Cost-effective and rapid monitoring of glycosylation is critical to ensuring the efficacy of protein-based antibody drugs and to elucidating the role of N-glycans in physiological processes.

Biography:

Lisa Holland is a Professor of Chemistry at West Virginia University, specializing in microscale separations of biomolecules relevant to human health. She received her B.S. degree in chemistry from the University of Maryland at College Park. She received her Ph.D. in chemistry from the University of North Carolina at Chapel Hill under the direction of Professor James Jorgenson. Through a National Research Service Award, she held a postdoctoral fellowship under the direction of Professor Susan Lunte in the Department of Pharmaceutical Chemistry at the University of Kansas. Dr. Holland is the recipient of a National Science Foundation Faculty Early Career Development award and has served as the Chair of the American Chemical Society Subdivision of Chromatography and Separation Chemistry. She enjoys teaching instrumental analysis to undergraduate and graduate students and mentoring the many outstanding researchers who have engaged in science at WVU.

Dinner Reservations:

To make dinner reservations, please complete the online reservation form at <http://sacp.org/monthly-meeting-rsvp/> **by Noon on Thursday, January 2, 2020**. Should you not have internet access, please call 412-825-3220, ext. 200. Dinner will cost \$10 (\$5 for students) and checks are to be made out to the SACP. If you have any dietary restrictions, please let us know when you leave a message.

Parking:

Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage, you will need to get a parking ticket and drive to upper floors. Bring your parking ticket to the dinner or meeting for a validation ticket. Should any difficulties arise, please contact Duquesne University.

Society for Analytical Chemists of Pittsburgh Spectroscopy Society of Pittsburgh

February Meeting

Wednesday, February 12, 2020

Duquesne University

SSP Technology Forum 5:30 PM

SACP Technical Program 7:45 PM

SSP TECHNOLOGY FORUM

“Medical Cannabis in PA: A Scientist Perspective”

Andrew Hiser, CannaTech Extracts, LLC

Biography:

About 7 years ago Andrew Hiser entered the steel industry as a laboratory technician fresh out of Geneva College with a bachelor's in Biochemistry. It took Andrew a little over a year to grow into a Senior Research Technician. From there Andrew gained some credits at Auburn University's online program for Materials Engineering. After 5 years Andrew was invested in the steel industry. Although, Andrew enjoyed his job in the steel industry, he stumbled across an article online that there was a need for an extraction manager at a new medical cannabis processing facility, a short distance from his home. Andrew applied for the job and was offered an extraction technician position. Even though Andrew did not have knowledge about the industry, he was ready to accept the job. Except he did not accept it. Instead, Andrew decided to do research from the beginning to learn the basics. He read a few cannabis business books and followed that with brushing up on his ISO and GLP. He wrote a letter to the Chief Scientific Officer of Holistic Industries which contained a presentation on Current Good Manufacturing Practice (cGMP) in the pharmaceutical industry. This letter was based on information provided by Shimadzu and a few articles on management. The letter also highlighted his experience in compliance, expertise in navigating and mastering computer software and his analytical knowledge. He also mentioned his limited experience operating the equipment and his lack of managerial experience. A few days later Andrew was hired as the Laboratory Operations Manager. As the Operations Manager at Holistic Industries Andrew was able to develop new extraction methods to increase efficiencies, new products, and implement new safety practices. Andrew also aided in the build out of the processing facility and helped the contractors throughout the process. After a year he found himself as an interim General Manager/Lab Manager, having no time to extract or to develop. He no longer enjoyed his job. Andrew was lucky enough to find an incredible group of individuals through a mutual friend. They had already been in the cannabis industry a few years and seemed to understand Andrew's desire to help others heal. They granted the funds and opened a company called CannaTech Extracts. Every day Andrew asks himself "Can a Tech Extract"? Yes, he can!

SSP TECHNICAL PROGRAM

“Development/Deployment of Inexpensive, Robust Instruments for Combating Disease on a Global Scale”

Dr. Jim Cybulski, CEO Foldscope

Foldscope was created with a vision to solve an accessibility problem in science. What began as a simple idea has now grown into a company that provides powerful low-cost tools to communities around the world, all in an effort to help advance education, health, and opportunity! We believe that the most important part of our company is not the tools themselves, but the communities that use them. Through our production of low-cost tools, we aim to break down the price barrier between people & the curiosity and excitement of scientific exploration. In other words, allowing people (especially children) to "do" science as opposed to simply learning about science.

This presentation will focus on the development and application of Foldscope microscopes for science education, disease prevention and providing accessible portals to the microcosmos.

Biography:

Dr. Cybulski is the co-inventor of the Foldscope and has spent the last 6 years developing and field testing Foldscopes all over the world, first as a PhD engineering student in the Prakash Lab at Stanford University and now as President and CEO of Foldscope Instruments. His primary role is to lead our efforts to provide access to scientific tools across the globe. Jim received his Ph.D. in Mechanical Engineering from Stanford, has a M.S. in Mechanical Engineering from MIT and B.S. degrees in Mechanical Engineering and Physics from Lehigh University.

Dinner Reservations:

To make dinner reservations, please complete the online reservation form at <http://www.ssp-pgh.org/ssp-monthly-meeting/> **by Noon on Tuesday, February 4, 2020**. Should you not have internet access, please call 412-825-3220, ext. 200. Dinner will cost \$10 (\$5 for students) and checks are to be made out to the SSP. If you have any dietary restrictions, please let us know when you leave a message.

Parking:

Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage, you will need to get a parking ticket and drive to upper floors. Bring your parking ticket to the dinner or meeting for a validation ticket. Should any difficulties arise, please contact Duquesne University.



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

Dr. Rachel Hoesly

ACS-Energy Technology Group

Thursday, January 16, 2020

Abstract

This presentation will discuss estimates of fossil-based CO₂ 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 Dr. Hoesly is an alumnus of Carnegie Mellon University (B.S. M.S., PhD) in Civil and Environmental Engineering.

Cost: the only cost is dinner, we'll order from the menu: <http://lombardozzis.com/uploads/jan2019.pdf>

RSVP by Monday January 13 to: ACS.ETG@gmail.com, walk-ins welcome but RSVP is preferred.

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

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



ACS Local Section
Pittsburgh



DUQUESNE
UNIVERSITY

BAYER SCHOOL OF NATURAL AND
ENVIRONMENTAL SCIENCES



Job Searching For STEM PROFESSIONALS

Presented by

The Spectroscopy Society of Pittsburgh
The American Chemical Society, Pittsburgh Section
The Society for Analytical Chemists of Pittsburgh
BSNES Association of Graduate Students, Duquesne University

Saturday, February 22, 2020

Pre-Registration is Required for this Free Event

Maurice Lecture Hall, Mellon Hall
Duquesne University
600 Forbes Ave, Pittsburgh, PA 15282

Parking is available in Forbes Garage (bring ticket to registration table)

PROGRAM

8:30 A.M.	Registration
9:00 A.M.	MANAGING AN EFFECTIVE JOB SEARCH Lisa Balbes, Ph.D. Balbes Consultants LLC Career Consultant, American Chemical Society
12:30 P.M.	Networking Lunch
1:00 P.M.	Resume Review and Personal Consultation
3:30 P.M.	Close

Please bring resume and/or CV to participate in the afternoon program
(Undergraduates without a resume may participate in the afternoon group resume review)

To Pre-Register for the Job Searching for Stem Professionals Workshop

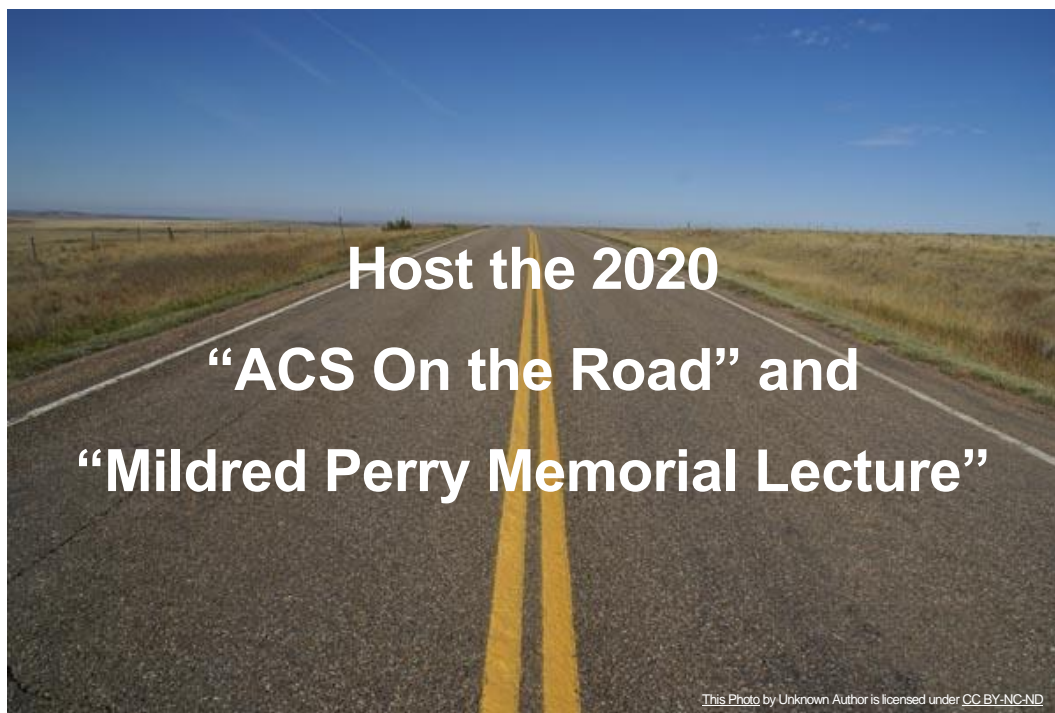
Send an email to Joshua Imperatore

at: imperat1@duq.edu

Your pre-registration must be received by Monday, February 17, 2020 and include your full name and complete contact information including address, phone number, email address and whether or not you expect to participate in the resume review. Academic registrants - please include university affiliation and university department. Let us know when you expect to complete your B.S., M.S., Ph.D., post-doc, or other assignment.



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).

American Chemical Society

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International Year of
CHEMISTRY
2011
www.acs.org/iyc2011



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 (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



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.

Pittsburgh Section Officers

Chair

Matthew Price
250 University Ave
California, PA 15419
724-938-4153
price@calu.edu

Secretary

Sara Smith
90 Emerson Ln
Bridgeville, PA 15017
sara.smith@perkinelmer.com

Treasurer

Evonne Baldauff
51 W. College St.
Waynesburg, PA 15370
724-852-7617
ebaldauf@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!

The 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 February 2020 issue must be to the editor by January 15th, 2020.

The Crucible

The Crucible is published monthly, August through May. Circulation, 2,500 copies per month. Subscription price, six dollars per year. 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



Spectroscopy Society of Pittsburgh

Professional Networking
within the Spectroscopy
Community

Monthly Symposia by
Prominent Researchers

Promoting Science Education

To join, call 412-825-3220
Ext. 200



Society for Analytical Chemists of Pittsburgh

Calling New Members!

Dues Only \$10.00

Call the SACP Administrative
Assistant at 412-825-3220
Ext. 200 Right Now!

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

Get Connected!

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

Website: www.pittsburghacs.org

Facebook Page/LinkedIn: Pittsburgh Section of the
American Chemical Society