

Volume CIV, No. 4

December 2018

2018 NCW Illustrated Poem Contest Winning entries

The Pittsburgh Section of the American Chemical Society's (ACS) sponsored an illustrated poem contest for students in grades K-12 in support of the 2018 National Chemistry Week (NCW) program. Students could pick topics related to the 2018 NCW theme "Chemistry is Out of This World." First and second place winners were selected from four grade categories: K-2nd, 3rd-5th, 6th-8th, and 9th-12th. Poems could be any style (free verse, limerick, haiku, etc.). Entries were judged based upon relevance to and incorporation of the theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.

Each 1^{st} place winner will receive a check for \$50 and their poem entered into a national contest where they will compete against entries from 188 ACS local sections from across the United States. Each 2^{nd} place winner will receive a check for \$25.

And the winners of the Pittsburgh Section ACS's NCW 2018 Illustrated Poem contest are:

K-2nd Grade

1st Place: Mina H., Penn Hills Elementary; Teacher – Mrs. Johnson
2nd Place: Holden K., McKnight Elementary; Teacher – Mr. Conway

3rd-5th Grade

1st Place: Aiden J., Boyce Middle; Teacher – Mrs. Fleckenstein
2nd Place: Layla O., North Star Middle School; Teacher – Mrs. Walker

6th-8th Grade

1st Place: Leah C., Moon Area Middle; Teacher – Mr. Todd
2nd Place: Addison B., Burgettstown Middle; Teacher – Mrs. O'Brien

9th-12th Grade

1st Place: Rita U., Ringgold High; Teacher – Mrs. Leasure
2nd Place: Rachel B., North Allegheny Intermediate; Teacher – Mr. Bockoven

See first place entries on <u>pages 9-12</u>.Congratulations to all our local contest winners!

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| 2018 NCW Illustrated Poem | <u>1</u> |
|---------------------------------|-----------|
| Contest Winning Entries | |
| Pittsburgh Section Awards | <u>2</u> |
| Dinner | |
| National Chemistry Week 2018 | <u>3</u> |
| Pittsburgh Section National | <u>4</u> |
| Chemistry Week Committee | |
| Presents an ACS "Salutes to | |
| Excellence" Award to Debbie | |
| Wallace | |
| Host Sites Needed for ACS | <u>4</u> |
| Pittsburgh Events | |
| Pittsburgh Mass Spec Discussion | <u>5</u> |
| Group | |
| Tripartite Symposium 2019 | <u>8</u> |
| Save the Date | |
| NCW Illustrated Poem Winners | <u>9</u> |
| Pittsburgh Section ACS Travel | <u>13</u> |
| Award Information | |
| Pittsburgh Section ACS | <u>14</u> |
| Travel Award Application | |
| Calendar | <u>17</u> |



AMERICAN CHEMICAL SOCIETY PITTSBURGH SECTION AWARD BANQUET

Honoring 2018 PITTSBURGH AWARD RECIPIENT Dr. Steven R. Little

2018 DISTINGUISHED SERVICE AWARD WINNER Dr. Guy C. Berry

THURSDAY, DECEMBER 6, 2018

Grand Concourse 100 West Station Square Dr. Pittsburgh, PA 15219

Social Hour: 6:00 Cash Bar Dinner: 6:45 Award Presentation: 7:45

DINNER REGISTRATION

Registration must be submitted by Monday, November 26, 2018: \$43.00; Student or Post-Doc \$21.50

Parking is not included in the cost but is available in lots adjacent to Station Square or through valet at the Grand Concourse.

To officially register for the event, payment must be received, Please make checks payable to ACS Pittsburgh Section and mail to Bradley Davis, 51 W. College St., Waynesburg, PA 15370. Include the following information along with your check:

NAME

ADDRESS______STATE ZIP

EMAIL

AFFILIATION

MEAL CHOICE (Please choose one):

SIRLOIN STEAK WITH WARM BLUE CHEESE BUTTER

SALMON ROCKEFELLER WITH SPINACH, CRAB MEAT, BACON, BÉARNAISE

VEGETARIAN (TO BE ANNOUNCED)

National Chemistry Week 2018

For the 20th consecutive year the Pittsburgh Section's National Chemistry Week (NCW) celebration was held at the Carnegie Science Center. The event was held on Friday and Saturday, October 26-27 and featured the theme "Chemistry Is Out Of This World!" Major sponsors for the event included the Society for Analytical Chemists of Pittsburgh (SACP), the Spectroscopy Society of Pittsburgh (SSP), PPG Science Education Council (PPG SEC), and the PPG Foundation.

Total attendance for the two-day event was 4,680 (2,346 on Friday, 2,334 on Saturday). Average attendance at the annual event for the past 5 years has been 4,600.

Thanks go to the over 40 organizations that conducted hands-on experiments and demos, event programming, or helped manage event activities. There were a total of 357 volunteers who participated in the 2018 celebration. Of the 357 volunteers, 177 (50%) were ACS members.

The NCW Committee would like to take this opportunity to thank everyone for your support of the NCW program. It took 357 individuals working together to make this event a success!

In addition, this event would not be possible without the help of our partners the SACP, SSP, PPG SEC, PPG Foundation and our host the Carnegie Science Center!



NCW Co-Chairs Evonne Bauldaff and Michael Mautino



McKnight Elementary students with Michael Mautino, and Nancy Lambing, Darcy Mautino (McKnight Librarian), Alice Hakos, Sharon Mautino



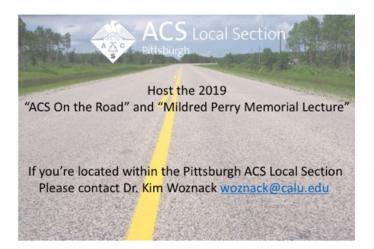
Volunteers: Mautino family – Lindsey, Tyler, Michael, Sharon, Darcy, and Nancy Lambing

Pittsburgh Section National Chemistry Week Committee Presents an ACS "Salutes to Excellence" Award to Debbie Wallace

The Pittsburgh Section National Chemistry Week Committee presented an ACS "Salutes to Excellence" award to Debbie Wallace from Bayer Corporation for her 20 years of organizing Bayer's participation in NCW! Of the over 100 organizations that have participated in the Section's annual NCW event, Debbie is the only group organizer to have participated every year for the past 20 years!

Thank you Debbie for your 20 year commitment to community outreach!





Are you interested in hosting the 2019 "ACS On the Road" and "Mildred Perry Memorial Lecture" event at your campus?

Each year the Pittsburgh local section features an "On the Road" event, which has the "Mildred E. Perry" memorial lecture.

This is a great opportunity to local section chemists to visit your site or campus. The organizers choose the speaker and program details and many past organizers would be happy to share our experience and websites if the host location is interested. This event was hosted by California University of Pennsylvania in 2018 and featured Dr. Amanda Bryant-Friedrich from the University of Toledo. If your institution is located in the Pittsburgh Local Section and you'd like to host the 2019 ACS "On the Road" event please contact Kim Woznack (woznack@calu.edu).



Practical Problem Solving with LC/MS – The Real World A Pittcon Quality Course in our Backyard

Tuesday, March 5, 2019 Duquesne University – Power Center (8th Floor)

600 Forbes Ave, Pittsburgh PA 15282

Prerequisite and Target Audience

Recommended for Analysts who have used LCMS previously or who want to see real world problems solved with the use of LCMS. Anyone using HPLC now and considering adding an LCMS detector to see what it will add to their lab, anyone doing chemical research, pharmaceutical analysis, food chemistry, organic synthesis, environmental analysis, QC, structural analysis, etc. will benefit from this course.

Questions Answered

- $\sqrt{}$ What sensitivity is possible/expected? What causes sensitivity loss? What can be done to improve sensitivity?
- $\sqrt{10}$ Which is the better mobile phase for LCMS, Methanol or Acetonitrile? How long can a mobile phase be used?
- $\sqrt{}$ What additives can I use and what are the best? How much does concentration of additives/buffers matter?
- $\sqrt{}$ What is the best HPLC column for LCMS?
- $\sqrt{10}$ How can I make more ions? How can I minimize multiply charged ions?
- $\sqrt{10}$ How can I determine the best settings for collision energy or voltages?
- $\sqrt{10}$ How can I improve quantitation reproducibility?
- $\sqrt{1}$ Is it better to have more resolution or more mass accuracy? What is spectral accuracy?
- $\sqrt{}$ Does nitrogen purity matter?
- $\sqrt{}$ What are the limitations of my current hardware?
- $\sqrt{}$ What software can I use to mine my data more effectively? How do I incorporate data-dependent experiments into my projects?

Cost

| Professionals: \$25.00 | Students: \$15.00 | Parking not included. Coffee and buffet lunch included. | | | | |
|--------------------------------------|--|---|--|--|--|--|
| | Registration is limited to the first 50 people. | | | | | |
| | Please RSVP by Tuesday, February 26, 2019. Make check payable to SSP and mail the registration form below to: | | | | | |
| | | | | | | |
| | | , 321 Winners Circle, Canonsburg, PA 15317 | | | | |
| • | ame: Affiliation: | | | | | |
| Mailing Address: | | | | | | |
| Phone: | Email: | | | | | |
| MS Instrumentation and so | ftware currently utilized: | | | | | |
| Please indicate dietary restrictions | 5. | | | | | |
| December 2018/The Crucib | le | 5 | | | | |

Practical Problem Solving with LC/MS – The Real World A Pittcon Quality Course in our Backyard

Tuesday, March 5, 2019 Duquesne University – Power Center (8th Floor)

600 Forbes Ave, Pittsburgh PA 15282 9:00 AM – 4:00 PM

Abstract

This is a course in LCMS for people who have done some LCMS previously. It focuses on the practical aspects of LCMS. The key understanding will be the 'what, where, why and how' of LCMS including real world examples at each step. The course will pose various problems that people have and then show ways to solve each question. For example, one of the questions will be 'Why are my results changing when I haven't changed anything?' or 'How much can I improve my sensitivity without having to buy new hardware?'

Numerous practical applications will be used to illustrate key points such as how different classes of molecules ionize or how simple changes in chemistry affects sensitivity. It thoroughly explores how to avoid the pitfalls and problems most common for users of LCMS such as how to prepare a sample for LCMS analysis and how to develop LCMS friendly methods. The course will show how to deal with complex samples, improve sensitivity, and speed up analyses. Identification of common impurities and artifacts will also be covered. It will also explore specific application areas including data mining software.

About our Trainers

The presenters have more than 50 years combined expertise with mass spectrometry. They teach these very course concepts at Pittcon and other conferences.

Bob Classon has several decades of experience with applications for both HPLC and LCMS, having worked at Waters Corporation and Shimadzu Scientific Instruments, Inc.. His focus is on getting better results from your existing instrumentation and improving sensitivity. He has delivered numerous talks, short courses and publications on chromatography and mass spectrometry.

Ross Willoughby has Pittsburgh roots and did his undergrad at the University of Pittsburgh. He was formerly the Vice President of R&D for Extrel, and is a pioneer in hardware design for mass spec. He is co-inventor of Particle Beam LC/MS, and has built LC/MS instruments. Ross has over 50 patents issued on mass spectrometer technology, and is also co-author of the popular book "A Global View of LC/MS."

Practical Problem Solving with LC/MS – The Real World A Pittcon Quality Course in our Backyard

Tuesday, March 5, 2019 Duquesne University – Power Center (8th Floor)

600 Forbes Ave, Pittsburgh PA 15282

9:00 AM - 4:00 PM

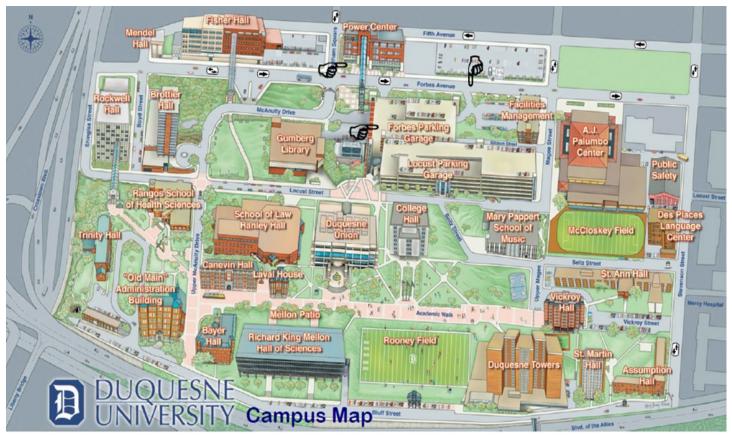
Finding the Power Center

The Power Center is located at 600 Forbes Avenue, Pittsburgh, PA 15282. There is a parking garage adjacent to the Power Center, also at 600 Forbes Avenue.

From the parking garage, take the elevator to the 8th floor level. At this level, go to the right and walk through the enclosed Skywalk to the Power Center Ballroom.

Once in the Power Center, you will be on the 5th floor where the Ballroom is located.

For driving directions to Duquesne University, please go to their website: <u>www.duq.edu</u>, under "About DU" then under Campus Map.



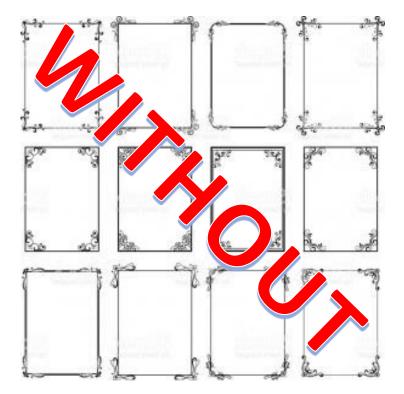
SAVE THE DATE!!!!!

2019 Tripartite Symposium

Saturday May 18, 2019 Carlow University – A.J. Palumbo Hall of Science

Can you guess the Tripartite 2019 Theme? Here is a hint:

CHEMISIS



Stay tuned for the January issue of The Crucible for the biggest hint yet!

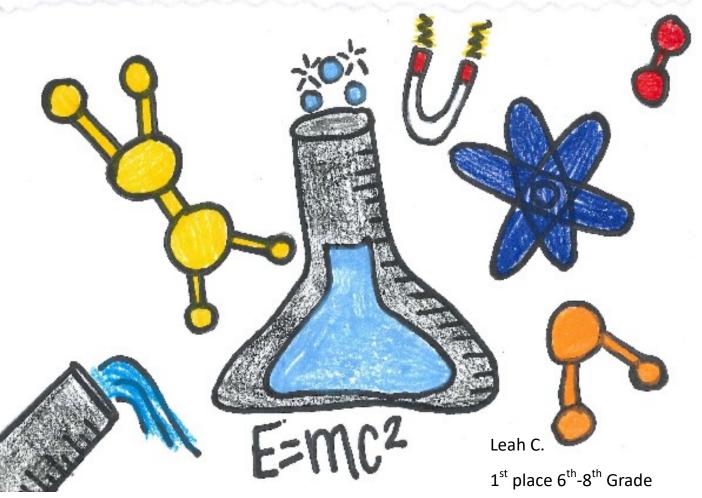
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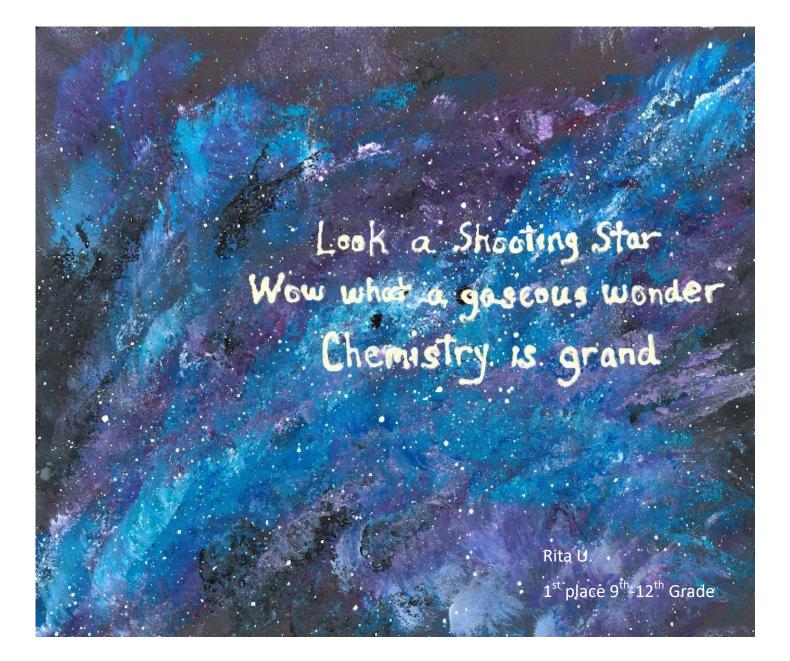
1st place K-2nd Grade

maix an in the L by stimmer and s tomight tonight. I look see the Oh. goy nun di OHA I. an be, Nic they are my thing to se Aiden J. 1st place 3rd-5th Grade

"chemistry is out of This World"

- 10 inches of snow is equal to 1 in on of rain!
- sometimes, two nour delays can be a pain!
- The only two non-slivery metals are copper and gold!
- IF you get a fake, sometimes you can be fooled!







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

(<u>hljuzwa@shimadzu.com</u> or <u>heather_sapko@hotmail.com</u>) 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, (<u>www.pittsburghACS.org</u>, 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.



www.pittsburghacs.org

| | Application Deadline | Travel Completion Date |
|-----------------|---|--|
| | December 1st | June 30 th (subsequent year) |
| | June 1 st | December 31 st (same year) |
| Name of App | | |
| | | |
| | | |
| | Undergraduate Student / Year | |
| | Graduate Student / Year | |
| | | |
| Mailing Addr | ess to Receive Payment if Awarded | |
| | | |
| Email | | Diama |
| Email: | | Phone: |
| PI: | | |
| | ship No.*: | |
| | | nail <u>hljuzwa@shimadzu.com</u> to receive it by email. |
| | | |
| Meeting Loca | tion: | Meeting Date: |
| Project Title:_ | | |
| Pape | r Presentation Poster Pr | resentation |
| *Please attac | h a copy of your project abstract to th | e application. |
| Has your proj | ect been accepted? Yes | No |
| *Attach docu | mentation regarding acceptance if r | received at point of application. |
| Will this be y | our first presentation at an ACS nation | nal or regional meeting? Yes No |
| | | |
| 10 1 1 | ist conferences at which you have pre- | . 1 |

| Pur | nose | of | grant: |
|------|------|----|----------|
| 1 01 | 0000 | O1 | Si unit. |

Other funding sources (if any):

Personal Statement of anticipated benefits of meeting attendance

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

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

I am willing to complete this report: Yes No

Signature:

Date:

Send completed hard-copy applications and supporting documentation to:

Pittsburgh Section ACS Travel Grants Heather Juzwa 321 Winners Circle Canonsburg, PA 15317

Business Directory

Services

Services

Services

Pittsburgh Section Officers

Chair

Brad Davis

724-852-3376

bdavis@waynesburg.edu

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Matt Baker 5626 Beacon Street Pittsburgh, PA 15217 mbaker1@andrew.cmu.edu

Treasurer

Amy Rupert 350 Sunset Rd. Pittsburgh, PA 15237 <u>treasurer@pittsburghacs.org</u>

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 January 2019 issue must be to the editor by December 15, 2018.

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

Volunteers Needed!



Society for Analytical

Chemists of Pittsburgh

CALLING NEW MEMBERS

Dues Only \$10.00, Call the SACP

Administrative Assistant at

412-825-3220 Ext. 212 Right Now!

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.

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tracijohnsen@comcast.net

Get Connected!

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

Section's Website:

www.pittsburghacs.org

Facebook Page:

Pittsburgh Section of the

American Chemical Society

Linked In:

Pittsburgh Section of the

American Chemical Society

Spectroscopy Society of Pittsburgh

 Professional Networking within the Spectroscopy Community

• Monthly Symposia by



- Prominent Researchers
- Promoting Science Education
- To Join Call Amy: 412-825-3220 ext 212

The Crucible

A newsletter of the Pittsburgh Section of the American Chemical Society

124 Moffett Run Rd. Aliquippa, PA 15001

Change of Address

If you move, notify the American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036. To avoid interruption in delivery of your CRUCIBLE, please send your new address to Traci Johnsen, 124 Moffett Run Rd., Aliquippa, PA 15001. Allow two months for the change to become effective.

Pittsburgh Area Calendar

Thursday, December 6

Pittsburgh Section ACS Awards Dinner

Grand Concourse, 100 West Station Square, Pittsburgh, PA

Stay up-to-date on all the happenings of the Pittsburgh Section ACS by visiting the following:

Section's Website: www.pittsburghacs.org

Facebook Page: Pittsburgh Section of the American Chemical Society

Linked In: Pittsburgh Section of the American Chemical Society

Snapchat: Pittsburgh_acs

Twitter: Pittsburgh ACS

Instagram: pittsburgh_acs