



The Crucible

www.pittsburghacs.org

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May 2016



Call for Nominations Pittsburgh Section of the ACS Pittsburgh Award

The Pittsburgh Award was established in 1932 by the Pittsburgh Section of ACS to recognize outstanding leadership in chemical affairs in the local and larger professional community. This Award symbolizes the honor and appreciation accorded to those who have rendered distinguished service to the field of chemistry. The Award consists of a plaque presented annually at a section dinner. Members of the Pittsburgh Section, or in exceptional cases, nonmembers, who have done work worthy of recognition toward increasing chemical knowledge, promoting the chemical industry, benefiting humanity, or advancing the Pittsburgh Section, are eligible for consideration.



The Distinguished Service Award

The Distinguished Service Award was established in 2007 by the Pittsburgh Section of the ACS to expand and replace the predecessor Chairman's Award of the section. Both recognize outstanding volunteer service to the Section. The Award, consisting of a plaque, is presented annually at a Section dinner, which is open to the public. Members of the Pittsburgh Section, past or present, who have provided outstanding service in advancing the Pittsburgh Section, are eligible for consideration.

*

Nominations for both awards are solicited from the membership of the Pittsburgh Section. Please include your contact information, the nominee's contact information, any supporting letters, and the nominee's CV. More information about the awards, including information on past winners can be found on the ACS website:

<http://www.pittsburghacs.org/awards/pittsburgh-award/>

*

DEADLINE EXTENDED!

Please send all nominations to Pittsburgh Section Chair-Elect, David H. Waldeck, dave@pitt.edu, by Tuesday, September 12, 2016. For more information about the nomination process, contact David at 412-624-8430.

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2016 Tripartite Symposium

Sponsored by



Did You Know...

The events of the American Civil War directly lead to lives saved at the Johnstown Flood disaster?!!!

Occasion: The 2016 Tripartite Symposium: The Civil War and Clara Barton
When: Saturday, May 21, 2016
Where: Carlow University AJ Palumbo Hall of Science and Technology
3333 Fifth Avenue (between Forbes and Fifth on the corner of Craft), Pittsburgh, PA 15213

Program

8:15 AM Registration
8:50 AM Opening Remarks
9:00 AM Medical Advancements of the Civil War
Peter J. D'onofrio, Ph.D.
11:10 AM Intermission
11:25 AM Clara Barton – Patriot Angel
Susan Marie Frontczak, BS, MS, Founder, Storysmith®
12:15 AM Questions and Answers
Susan Marie Frontczak and Peter J. D'onofrio
12:35 PM Reception

OPEN TO THE PUBLIC

Registration Deadline: May 14, 2016 (Seats are limited!)

Registration Fees (incl. Reception & Parking*): \$15 (Adult); \$5 (Retiree & Student aged 12 & up)
(Note: *Parking available in Carlow University Lots "A/D" (see http://www.carlow.edu/Maps_Directions_Parking.aspx))

2016 Tripartite Registration Form

Name: _____ Affiliation: _____

Email: _____ Phone: _____

Registration Type (check one): Regular Retiree Student (age 12 & up with ID)

Membership(s) (check all that may apply): SSP SACP ACS

PA Teacher ACT 48 Credit Needed? Yes Staying for Reception? Yes No

Please make check payable to Spectroscopy Society of Pittsburgh and mail with Registration Form to:
Tripartite Symposium
300 Penn Center Blvd., Suite 332
Pittsburgh, PA 15235

(For further questions, please email sspinfo@pittcon.org or call 412-825-3220, x 212)

Susan Marie Frontczak, B.S., M. S., Founder of Storysmith®

Hear Clara's tribute to the soldiers who serve in our armed forces and their families. Find out how she worked her way through government red tape both to care for the wounded on the Civil War battlefield and years later to convince the United States government to bring the Red Cross to America. Clara's service during the Johnstown Flood established the Red Cross as a humanitarian force at natural disasters. Her dedication to the cause of humanity stand as a role model for all time.



About the Speaker: Susan Marie Frontczak has given over 600 living history presentations as Clara, Eleanor Roosevelt, Marie Curie, Irene Castle, and Mary Shelley across the United States and abroad.

Ms. Frontczak received a B.S. in Engineering from Swarthmore College in 1977 and a Masters in Software Engineering from the Wang Institute of Graduate Studies in 1984. From 1978 through 1994 she worked as an engineer and manager at Hewlett Packard Company, designing on diverse projects such as a graphics tablet, integrated circuits, medical monitoring equipment, and user interfaces.

An avocation in Storytelling switched to a part-time profession in 1989, and grew. She took a one-year leave of absence from engineering in 1994 to give full-time storytelling a try. That one year has turned into twenty. In 1998 she founded Storysmith®, through which she has brought literature to life, created stories from thin air, and honed personal experience into tales worth telling again and again. More information at <http://www.storysmith.org>

Peter J. D'onofrio, Ph.D. President and Chief Executive Officer of THE SOCIETY OF CIVIL WAR SURGEONS, INC.

The Civil War was the first modern war and resulted in the highest number of U.S. casualties per capita of any of our wars as between 750,00 and 850,000 men perished (approximately 8 million in today's population), including roughly 50,000 civilians; 25% of those involved died. These casualties exceeded the total of killed in the American Revolution, War of 1812, Mexican-American War, Spanish-American War, WW I, WW II, the Korean Conflict, and over half of those killed in Viet Nam combined and affected, either directly or indirectly, nearly every family in the North and South While the impact on the U.S. population was obvious, what is not appreciated, even now, is the rapid advances made by American medicine that were stimulated by this conflict. This presentation will inform the audience of the background, procedures, and personnel that lead to the advancements, many of which are the basis of techniques and procedures that are used today, and their impact on the subsequent development of American Medicine.

About the speaker: Dr. D'Onofrio is the President and Chief Executive Officer of THE SOCIETY OF CIVIL WAR SURGEONS, INC., a non-profit, tax-exempt, international educational organization whose purpose is to educate the general public, as well as fellow re-enactors, as to the life, times, and role of the Civil War medical professional. Among his long list of publications and events, Dr. D'Onofrio writes a regular feature in The Journal of Civil War Medicine entitled "Who Were They? Medical Personnel of the Civil War," in which he presents a biographical article on four or five surgeons, assistant surgeons, stewards, and/or nurses of the Civil War.

Annual Awards Dinner

Monday, May 23, 2016

Co-Sponsored by

THE SOCIETY FOR ANALYTICAL CHEMISTS OF PITTSBURGH



and

THE PITTSBURGH SECTION, AMERICAN CHEMICAL SOCIETY



Duquesne University Ballroom
(Student Union – 4th Floor)

Social Hour – 5:30 P.M.
Dinner – 6:30 P.M.

Entrée Choices: Almond Crusted Chicken with Maple Glaze
or
Stuffed Zucchini with Artichokes, Peppers & Goat Cheese

Cost of Dinner for members and/or guest - \$15.00 per person.
Each member may bring one guest.

Dinner reservations: Please complete contact Valarie Daugherty, SACP Administrative Assistant at 412-825-3220, ext. 204 to make your dinner reservation. Deadline to RSVP is NO LATER the Wednesday, May 11, 2016. If you have any dietary restriction, please note when you make your reservation.

Parking: For parking, please use the Duquesne University Parking Garage on Forbes Avenue. Please bring your parking ticket to the registration desk for a parking validation sticker.

Pittsburgh Section ACS Energy Technology Group

Tuesday, May 10, 2016

***“Progress in Understanding, Treating, and
Utilizing Coal Mine Drainage”***

**Margaret Dunn, Professional Geologist, and Dan Guy from
BioMost, Inc.**

Social Hour 6:00 PM, Dinner 6:30 PM, Talk 7:30 PM

**Spaghetti Warehouse
26th & Smallman Streets, Strip District, Pittsburgh PA
Free parking behind the restaurant**

Understanding the causes and means to prevent the generation of degraded drainage from both surface and underground coal mines has been seriously studied for almost 40 years, and, in western Pennsylvania, passive treatment systems have been installed for over 20 years. Due to the legacy of over 5,000 miles of abandoned mine drainage-impacted streams in Pennsylvania, more than 300 passive systems have been installed and efforts have been ongoing by watershed groups, government agencies, foundations, and others to sustain long-term treatment performance including the development of funding sources to aid in offsetting the cost of system maintenance and rehabilitation. A general overview of mine water chemistry, the function of various passive treatment components, and the efforts to utilize byproducts of mine drainage treatment will be highlighted in the presentation.

Margaret Dunn has focused on developing and improving coal mine drainage treatment components that are low maintenance and that use environmentally-friendly technology since co-founding BioMost, Inc. with Timothy Danehy, Quality Environmental Professional, in 1998. To date, four US Patents have been issued as well as a patent-pending relating to passive treatment technology. Working with Dan Guy and others of the eight-member BioMost team, the focus has also included developing uses for metal-bearing solids formed during mine water treatment and generating electricity from treatment system effluent by the installation of microhydropower facilities.

For reservations, please contact Elliott Bergman at elliott.acstechnology@gmail.com by 7:00 P.M. on May 8, 2016. Walk-ins are welcome. Our meetings are open to all. Menu choices consist of spaghetti & meatballs, lasagna, fettuccini alfredo, four cheese manicotti, grilled chicken caesar salad, and chicken parmigiana. The meal includes a soft drink or iced tea. Alcoholic drinks cost extra.

The cost of the dinner is \$22 including tax and gratuity. Cash is accepted or make check payable to: Energy Tech Pgh Section ACS.

Mildred Perry Memorial Lecture

The Mildred Perry Memorial Lecture, formerly known as the ACS on the Road Meeting Series, provides a forum for members throughout the region to gather together. On Tuesday, March 29th this annual event was hosted at Waynesburg University in conjunction with the Crosby Lecture Series. Attendees had the opportunity to listen to Dr. Harry Gray present a talk entitled “The 21st Century Solar Army”. Well-known for work in his early career in



Pittsburgh Section Chair Evonne Baldauff (right) with Mildred Perry Memorial Lecture Speaker Dr. Harry Gray

establishing ligand field theory and electron transport, Dr. Gray instead spoke to both the challenges of and potential for harnessing solar energy in an efficient, cost-effective, and durable fashion. Dr. Gray’s approach to this crucial task is to engage students and researchers across the world to work collaboratively in identifying materials that will aid in energy conversion and storage processes. Following the lecture, students and ACS participants had the opportunity to talk further with Dr. Gray during a reception sponsored by the section. The 2017 Mildred Perry Memorial Lecture will be held at California University of Pennsylvania. If you are interested in hosting a future meeting, please contact Evonne Baldauff (ebaldauff@waunesburg.edu).



Mass Spectrometry Discussion Group of Pittsburgh



MANUFACTURER'S NIGHT AND POSTER SESSION

Thursday, June 16, 2016

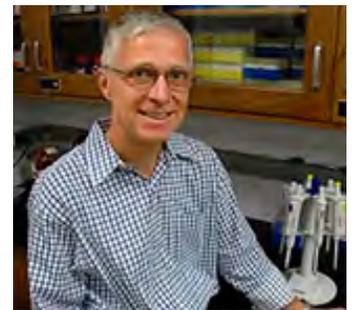
Duquesne University – Power Center

600 Forbes Ave., Pittsburgh PA 15282

(for free parking, must park in Forbes Parking Garage – bring ticket to meeting for validation)

The best undergraduate or graduate student poster (must show MS work) will receive a cash prize, presented at the dinner!

- 4:30 PM Manufacturers' Booths and Poster Session
- 5:30 PM Cocktails and Social Hour
- 6:00 PM Dinner
- 7:00 PM Student Poster Award Presentation
- 7:05 PM Dr. Chrys Wesdemiotis - Multidimensional Mass Spectrometry of Advanced Materials and Polymer-Biomolecule Conjugates



Please register by Friday, June 10, 2016
 Registration Fee (dinner and parking included):
 \$20 – Professionals
 \$10 – Students and Retirees
 Each Vendor – ONE Free Registration

Please send completed REGISTRATION FORM and check to Ms. Amy Bovino, SSP, 300 Penn Center Blvd., Suite 332, Pittsburgh, PA 15235, no later than June 10, 2016. Checks can be made payable to SSP.



SSP MSDG Registration Form – June 16, 2016

Name: _____ Affiliation: _____

Email: _____ Phone: _____

Check all that apply. I will be presenting a poster Undergraduate Graduate Retiree
 Professional Vendor Table

Indicate dinner choice and any dietary restrictions Olive Oil and Herb Chicken Gorgonzola Filet
 Mushroom Ravioli



Mass Spectrometry Discussion Group of Pittsburgh

“Multidimensional Mass Spectrometry of Advanced Materials and
Polymer-Biomolecule Conjugates”

**Dr. Chrys Wesdemiotis, Distinguished Professor University of Akron
Department of Chemistry**

Abstract: Advanced polymeric materials designed for industrial, pharmaceutical, biomedical, and technological applications are often complex blends that cannot be characterized by conventional spectroscopic methods. For these systems, the dispersive nature of mass spectrometry (MS) provides the only analytical tool to obtain microstructure information, especially if MS is interfaced with a separation method, such as liquid chromatography (LC) or ion mobility (IM) spectrometry. Particularly powerful are ultrahigh performance LC which reduces elution times, and the IM dimension which enables separation in the gas phase by charge, size, and shape and also minimizes solvent use. IM-MS is ideally suitable for the analysis of labile macromolecular mixtures which cannot be subjected to LC, because they are labile or reactive; its analytical power will be demonstrated with the complete characterization of hybrid materials and supramolecular “smart” polymers that cannot be purified for other types of characterization. IM-MS also reveals information about the macromolecular architectures of the analyzed materials. Moreover, the IM and MS dimensions can be combined with LC fractionation to separate and identify multicomponent mixtures by polarity (LC), shape/architecture (IM), mass (MS), and fragmentation pattern (tandem MS), as will be illustrated for protein-poly(ethylene glycol) conjugates.

Biography: Chrys Wesdemiotis received his Ph.D. degree with Helmut Schwarz at Technische Universität Berlin in 1979. He was a postdoctoral fellow with Fred W. McLafferty at Cornell University in 1980. After completing his military service in Greece (1981-3), he returned to Cornell as a senior research associate (1983-9). In 1989, he joined the faculty of the University of Akron, where he currently is Distinguished Professor of Chemistry, Polymers Science, and Integrated Bioscience. Research in the Wesdemiotis group focuses on the development and applications of multi-dimensional mass spectrometry methods for the characterization of new synthetic polymers and polymer-biomolecule conjugates and interfaces. Wesdemiotis served as a Member-at-Large for Education in the Board of Directors of the American Society for Mass Spectrometry (ASMS) and is a Fellow of the American Association for the Advancement of Science (AAAS). He is an Editor of the European Journal of Mass Spectrometry and a member of the Editorial Boards of the Journal of the American Society for Mass Spectrometry, International Journal of Mass Spectrometry, and Mass Spectrometry Reviews

Attention: Speakers Wanted



The Pittsburgh Section of the American Chemical Society is establishing a local speakers bureau and we would like for you to consider joining.

The speakers bureau will be available on our web site and will facilitate the connection between those organizing symposia and speakers from our area.

If you would like to be listed in the Bureau, please provide the following information:

- Name
- Affiliation
- Contact Information:
 - Mailing Address
 - Website (if applicable)
 - Email address
 - Phone
- Keywords/categories related to expertise (up to 5)
- Current CV/Resume (in pdf format)

Any questions should be directed to Michelle Ward
(muscat@pitt.edu or 412-624-8064)

Councilor Report: ACS SPRING 2016 NATIONAL MEETING San Diego, CA

Four of ACS Pittsburgh Section Councilors were in attendance in San Diego.

The meeting attracted approximately 16,327 attendees and an exposition of 415 booths.

The Candidates for President- Elect, 2017 are:

- Peter K. Dorhout
- Thomas R. Gilbert

The Candidates for Directors-at-Large for a 2017-2019 term: Joseph A. Hepert, Kristin M. Omberg, Dorothy J. Phillips, and Kathleen M. Schulz. The election of two Directors-at-Large from among those candidates will be conducted in the fall. Ballots will be distributed to the Council on September 29, 2016.

By Internet Ballot, the Councilors from District II selected George M. Bodner and Christina C. Bodurow as Director District II candidates for the Term of 2017-2019. Ballots will be distributed on September 29, 2016 to all ACS members in the District II for election of a Director.

The Committee on Meetings & Expositions reported that the total meeting registration was 16,327. Of these, 8,398 were regular registrations, 1094 were exhibitors, 5,979 were students, 473 were exposition only, and 383 guests. The exposition had 415 booths with 274 companies. The meeting had over 12,000 papers presented.

The Council voted to set the member dues for 2017 at the fully escalated rate of \$166. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

The Council voted to approve revised Academic Professional Guidelines, subject to approval by the Board of Directors. The Guidelines apply to those members of the academic community whose job function impacts directly or indirectly on scientists practicing the profession of chemistry.

In 2015, ACS generated a Net Operations of \$16.6 million, which was \$3.2 million favorable to budget. Total revenues were \$ 511.7 million, essentially on budget. Expenses ended the year at \$ 495.1 million, which as \$3.1 million or 0.6% favorable to budget. This variance was attributable to a continued emphasis on expense management across the Society. The Society's financial position strengthened in 2015, with Unrestricted Net Assets, or reserves, increasing from \$144.7 million at December 31, 2014 to \$ 163.3 million at year-end 2015.

As of December 31, the ACS membership was nearly 157,000, which is less than on the same date in 2014. The number of new members who joined in 2015 is 25,000. The Society's overall retention rate is 84%. The committee also reported that the number of

international members has increased to 26,022. That number is 965 higher than in December of 2014. The international growth rate is 3.85%.

In compliance with the National Meeting Long Range Financial Plan and the recommendations of the 2015 Task Force on Implementing National Financial Targets, the Committee on Meetings and Expositions has recommended that the Early Member Registration Fee for the 2017 national meetings be \$440. The Board will vote on this recommendation later this year.

On the recommendation of the Committee on Grants and Awards, the Board voted to approve an endowment to support the E. Bright Wilson Award in Spectroscopy.

Respectfully submitted,

Richard S. Danchik (Author)
Mike Mautino
Joseph Jolson
Robert Mathers
Pittsburgh Section Councilors

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

Student Travel Awardee Kaelyn Gresko Reports on ACS Spring 2016 National Meeting

This spring I attended the 251st ACS National Meeting in San Diego, California with the help of the ACS Pittsburgh Section. This was the first ACS meeting I have attended. I was very excited to see what it had to offer, and I was not disappointed. There were numerous people to meet and countless events and symposiums to take part in.

The main reason for attending this event was to present my research poster, "Metals in Mushrooms of Western Pennsylvania," in the Under-

graduate Research poster session with about 2,000 of my peers. This was a wonderful opportunity. I had the chance to talk to various people who were interested in my findings. I also had the chance to talk with other students presenting posters.

While there were many symposiums to choose from, my favorite lecture series I listened to was the "Analytical Methodologies and Research Partnerships at the Interface of Chemistry and Art/Archeology." This series focused on art, but it also focused on collaborating with different fields other than chemistry. There were many great speaker and topics, but my favorite was the "Technical Investigation of Josef Albers's 'Casa' series by X-ray Fluorescence Spectroscopy and Imaging Studies" presented by Robert Bachman. In this talk, Bachman spoke about a painting in which the artist focused on color and geometry. The artist recorded all of the colors and

brands of paints he used and where in his painting he used them on the back of his paintings. Bachman's research focused on analyzing the paint.

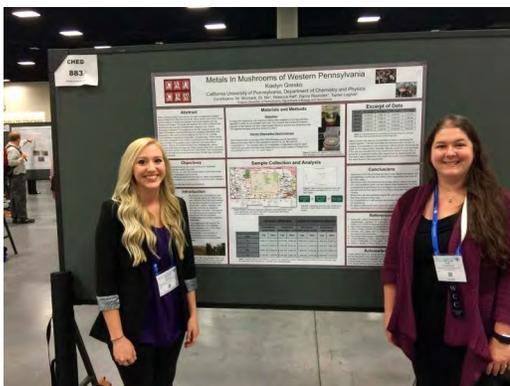
Along with this symposium, I attended the international reception where I

had the chance to talk to a student about her research she had conducted in Germany, and I also had the opportunity to network with many people. I also attended the Women's Chemist Committee breakfast. This was great for meeting women chemists like

myself. The breakfast also consisted of a presentation about online presence and what should and should not be posted online.

Overall I had an amazing time at the meeting this year, and I look forward to attending meetings in the future. I want to thank the ACS Pittsburgh section for providing the funds that allowed me to go.

For more information regarding Student Travel Awards, please see the article on [Page 11](#) or visit the section website at www.pittsburghacs.org.



Pittsburgh Section Student Travel Awardee Kaelyn Gresko (left) with her research advisor, Dr. Kimberly Woznick at the Spring 2016 ACS National Meeting

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Pittsburgh Region ACS Student Chapters Recognized for Promotion of Chemistry

Each year the Undergraduate Programs Office recognizes ACS Student Chapters for their work in promoting chemistry. At the 2016 National Meeting in San Diego, CA the following ACS Student Chapters located in the Pittsburgh region were recognized. Congratulations to all student members!

Outstanding:

Duquesne University
University of Pittsburgh
Waynesburg University

Commendable:

Bethany College
Saint Francis University
Seton Hill University

Honorable Mention:

Carlow University
Clarion University of Pennsylvania
Geneva College
Saint Vincent College
Slippery Rock University of Pennsylvania

Green Chemistry:

Duquesne University
Saint Francis University
University of Pittsburgh

Penn State Greater Allegheny Instructor Publishes New Book On Environmental Engineering

McKeesport, Pa. -- Penn State Greater Allegheny Instructor in Engineering Alandra Kahl published a book, Introduction to Environmental Engineering.

The book, published this January by Momentum Press, "is intended as a reference for the graduate level scholar on selected topics and environmental engineering." (Amazon.com.)

Kahl took approximately one and a half years to write the book, writing for an hour each morning. She mostly wrote what she knew, but also did research on some subjects with which she was not completely familiar.

Topics encompassed in the book include: treatment of water and wastewater, mitigation of environmental hazards, and sustainable practice. According to Amazon.com, "The book discusses the concepts and dimensions of environmental treatment, costs of poor environmental quality, the importance of sustainability in this highly competitive global economy, and environmental law. The text integrates concepts, methods, and historical context to give an overview of basic topics in environmental engineering."

Amazon states, "This book fills a gap in the literature by providing a comprehensive overview of topics in the environmental engineering discipline."

Kahl agrees. She said she intended for the book to be used as a reference. "It's pretty general. When a student wants to find out more about a subject, they can just look it up in my book," she said. "I wanted to create one book that covers a number of different subject areas in one place."



Penn State Greater Allegheny Instructor in Engineering Alandra Kahl

Local Students Awarded for Work at the Covestro Pittsburgh Regional Science & Engineering Fair

The ACS Pittsburgh Section awarded two outstanding students for their work at the recent Covestro Pittsburgh Regional Science & Engineering Fair (PRSEF) held at Heinz Field on April 1-2, 2016. Projects were judged on creativity and demonstrated relevance to chemistry. The awardee in the Intermediate Chemistry (7th & 8th Grade) category was Prateek Adurty of Sewickley Academy. Adurty, working under the direction of teacher Ron Kinser, presented a project entitled "Going Green: Environmental Impact of Fuels by Combustion". Vashisth Parekh of Upper St. Clair High School was awarded the Senior Chemistry (9th-12th) prize for his presentation of "eBatt: A Printable Battery". This project was performed with the assistance of teacher Lynn Kistler. The ACS Pittsburgh Section would like to thank all volunteer judges who made these awards selections possible. The 2017 Covestro PRESEF date has been scheduled for March 31st- April 1st. Anyone interested in serving as a judge next year should contact Evonne Baldauff (ebaldauff@waynesburg.edu).



PRSEF Intermediate Award winner Prateek Adurty (Center) with Dave Waldeck and Evonne Baldauff



PRSEF Senior Award winner Vashisth Parekh (Center) with Dave Waldeck and Evonne Baldauff



New Email Service for the ACS Pittsburgh Section Magnet Mail

The Pittsburgh Section has gotten a new email service. All messages, including The Crucible Newsletter, will still come from the same webmaster@pittsburghacs.org, but they will have a new look and feel. For those of you who get emails from National ACS, you will recognize the format. Our new emails will have the yellow and blue header bar across the top with the ACS logo on the left. Most emails will have either a header or an image on the right. Here is an example:

Trouble viewing this message or on a mobile device [click here](#)



At the bottom of most emails, you will see an Unsubscribe bar like the one below.

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[Email Management](#) | [Unsubscribe](#)

With the move to this new service, if you have previously opted out of ACS emails, you will no longer receive our section's promotional emails. You will, however, receive Administrative emails, such as our electronic election notifications and ballots.

Applications for Student Travel Awards Now Being Accepted

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: 06/01 (for travel to be completed by 12/31) and 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 two recommendation letters (one must be from the PI of the project being presented) and a personal statement as to the anticipated benefits of meeting attendance.

Applications can be made electronically (preferred) by emailing the application to Dr. Michelle Ward (michelle.ward@pitt.edu) or by mailing a hard-copy application (Pittsburgh Section ACS TravelGrants / Attn: Dr. Michelle Ward / Room 107 / Chevron Science Center / 219 Parkman Avenue / Pittsburgh, PA 15260).

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 web site (www.pittsburghACS.org) as necessary.

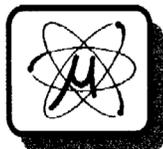
Applicants will be notified via email that their application was received. All efforts will be made to announce awards within two weeks of the application deadline, and all applicants will be notified of the final committee decisions. Our Section is looking forward to helping increase the participation of local students in ACS conferences. If you have any questions, please do not hesitate to contact Michelle Ward at michelle.ward@pitt.edu.

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- Promoting Science Education



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Business Directory

Services

PITTSBURGH SECTION OFFICERS

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Services

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!

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 August 2016 issue must be to the editor by July 15, 2016.

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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Career Opportunities

RECRUITING WEB SITE LISTING DIRECT TO YOUR SITE

There are two important ways to recruit through our services. One is to place a print ad in the Crucible. The other is to place a web site ad reaching out to 40,000 ACS members. We recommend using both low cost methods.

You can view both of these opportunities by going to the link below. Who uses these options?

- Companies for lab, management and sales personnel
- University & College teaching positions
- Hospitals for technical and research personnel

We provide more qualified resumes because of the highly targeted technical audience.

info -- www.mbosevices.net

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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

Tuesday, May 10

Pittsburgh Section ACS Energy Technology Group

“Progress in Understanding, Treating, and Utilizing Coal Mine Drainage”

Margaret Dunn, Professional Geologist, and Dan Guy from BioMost, Inc.

Spaghetti Warehouse, 26th and Smallman Streets, Strip District, Pittsburgh, PA

Saturday, May 21

Tripartite Symposium

“The Civil War and Clara Barton”

Carlow University, AJ Palumbo Hall of Science and Technology

3333 Fifth Ave.(between Forbes and Fifth on the corner of Craft), Pittsburgh, PA 15213

Monday, May 23

Society for Analytical Chemists of Pittsburgh & The Pittsburgh Section ACS

Annual Awards Dinner

Duquesne University Ballroom (Student Union - 4th floor), Pittsburgh, PA

Thursday, June 16

SSP Mass Spectrometry Discussion Group of Pittsburgh

Manufacturer’s Night and Poster Session

“Multidimensional Mass Spectrometry of Advanced Materials and Polymer-Biomolecule Conjugates”

Dr. Chrys Wesdemiotis - Distinguished Professor, University of Akron Department of Chemistry

Duquesne University - Power Center, 600 Forbes Ave. Pittsburgh, PA