



The Crucible

www.pittsburghacs.org

Volume: CI No.2

October 2015



YOU ARE INVITED!!!

Join the Pittsburgh Section ACS
as we celebrate

National Chemistry Week "Great Chemistry is Everywhere!"

Where: Carnegie Science Center

When: October 23-24

The 2015 National Chemistry Week (NCW) celebrations in Pittsburgh will be held on Friday, October 23 (10 AM to 3 PM) and Saturday, October 24 (10 AM to 5 PM), at the Carnegie Science Center.

Join in the NCW activities as we celebrate this year's NCW theme

"Chemistry Colors Our World"

Hands-on Activities - Theater Shows – Prizes

- Visit over 20 tables with hands-on experiments, activities, and demonstrations
- Visit the Drake Oil Well Museum's Mobile Energy Education Training Unit, located in the Carnegie Science Center's parking lot, on Friday, October 23
- Catch special NCW-related theater shows
- Register to win a chemistry set or one of several prizes

For more information about the NCW celebration in Pittsburgh, visit the Pittsburgh Section ACS's website at <http://www.pittsburghacs.org/outreach/national-chemistry-week/>

Find us on Facebook at: **Pittsburgh ACS NCW**

You can also contact the Carnegie Science Center at (412) 237-1640 or the Pittsburgh Section ACS's NCW Coordinator Michael Mautino at (412) 413-4792 or michael.mautino@covestro.com

The Pittsburgh Section's 2015 NCW activities are sponsored by the Society for Analytical Chemists of Pittsburgh, the Spectroscopy Society of Pittsburgh, the PPG Science Education Council, the PPG Industries Foundation, Coverstro, LLC, and the Carnegie Science Center.

Contents . . .

National Chemistry Week 2015	1
2016 Nominations for the ACS	2
Pittsburgh Executive Board	
National Chemistry Week 2015	4
Illustrated Poem Contest: Chemistry	
Colors Our World	
ACS On the Road Mildred Perry	6
Memorial Lecture	
The Society for Analytical Chemists of	7
Pittsburgh October Meeting	
Applications for Student Travel	8
Awards	
The Spectroscopy Society of	8
Pittsburgh October Meeting	
Pittsburgh Section Wins	9
ChemLuminary Awards	
Report on ACS Fall National	9
Meeting 2015 Boston, MA	
The Greater Pittsburgh Area	12
Women Chemists Committee	
Names Award Recipients	
Attention: Speakers Wanted	13
ACS National Searching for	13
Individuals to Serve on Selection	
Committees	
Advertiser's Index	15
Calendar	16

2016 Nominations for ACS Executive Board

The 2015 Nominating Committee of the Pittsburgh Section of the American Chemical Society submits the following slate of candidates for Section office for 2016. All persons nominated are members of the society and have agreed to serve if elected. Nominations will continue to be accepted until October 1, 2015. Please email Amy Rupert at amy Rupert@me.com to nominate someone (or yourself.)

Elections will be held mid-November. Unless you receive a paper copy of *The Crucible*, and assuming you are in good standing with ACS, you will receive your ballot electronically via an email notification. More information, including exact dates of the election and a final list of nominees, will be included in the November edition of *The Crucible*.

Chair-Elect

Dave Waldeck

David obtained a B.S. in chemistry from the University of Cincinnati in 1978 and a Ph.D. in chemistry from the University of Chicago in 1983. He was a postdoctoral fellow at the University of California, Berkeley from 1983 to 1985. In 1985 he moved to the University of Pittsburgh as an Assistant Professor of Chemistry. He served as Chair of the Department of Chemistry from 2004 to 2014. Currently, he holds the rank of Professor and is the Director of the Petersen Institute of NanoScience and Engineering at the University of Pittsburgh. David became a Fellow of the American Physical Society in 2004, and he received the ACS Pittsburgh Award in 2014. David first became a member of the ACS in 1978.

As a faculty member David has made important contributions in chemistry education and research. During his time in the Department, David has taught more than fifteen different courses in areas of chemistry and photonics at all levels, ranging from introductory general chemistry to advanced topics in physical chemistry. David has written a textbook on physical chemistry, *Principles of Physical Chemistry* with H. Kuhn, H. D. Foersterling, and D. H. Waldeck (Wiley, NY, 2009). David has mentored numerous postdoctoral students and more than 35 PhD & MSc. students, as well as numerous undergraduates during his time in Pittsburgh. David's research program uses methods of

spectroscopy, electrochemistry, and microscopy to investigate primary processes in the condensed phase, which includes liquids, solids, and liquid/solid interfaces. His research program uses experiment and theory in a synergistic manner to quantify the interesting phenomenology that is displayed by molecules and their assemblies. He and his collaborators have published more than 180 papers.

David has played an active role in the Pittsburgh chemistry community through his active participation in the SSP and SACP societies and through his position as chair of Pitt's chemistry department. He intends to apply that experience and expertise for the benefit of the local ACS section.

Secretary

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 and also participates in the chemistry programs integrated laboratory and research program. Matthew has participated in the department's ACS accreditation efforts and has served as Chemical Hygiene officer in the department since 2008 and is currently the department chair 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-present).

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 designing polymeric bioconjugates in gene transfection applications. 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 2003-4.

Matthew has been a member of the American Chemical Society since 1998. Matthew also 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 National Chemistry Week committee (chaired in 2013-4).

Secretary – Elect

Chad Keyes

Dr. Chad Keyes is originally from West Lafayette, IN. He received his B.S. degree in chemistry at Ball State University in 2009. Shortly thereafter, he attended Purdue University and received his Ph.D. in organic chemistry in August of 2014. Following the completion of his doctoral degree, he moved to Pennsylvania to start

Continued on [Page 3](#)

2016 Executive Board Bio's Continued from Page 2

teaching at Waynesburg University as an Assistant Professor of Chemistry.

Dr. Keyes is actively involved in various student and volunteer organizations such as the Student Affiliates of the American Chemical Society at Waynesburg University and Big Brother Big Sister of Washington County. Furthermore, he has held several leadership positions outside of Waynesburg University, serving on the Washington County Advisory Board for Big Brother Big Sister and as a Visiting Instructor at Purdue University during the summer of 2015.

During his undergraduate studies, Dr. Keyes was awarded the Newell C. Cook Sr. and Jr. Scholar Award and was also awarded the Ross Fellowship during his doctoral studies.

Treasurer - Elect

Amy Rupert

Amy received her B.S. in chemistry in 2006 from Indiana University of Pennsylvania and her PhD in chemistry in 2012 under the advisement of Dr. Stephen Weber from the University of Pittsburgh. From 2012 to early 2014 she held a post-doctoral appointment in the Department of Neurology at the University of Pittsburgh before accepting a position as a scientific advisor at a local IP (intellectual property) law firm, Beck and Thomas.

Amy has helped initiate two subsections of the ACS – the WCC and the YCC and has served on the executive committees of both. She was treasurer of the Pittsburgh Section of the ACS in 2013 and served as chair of the section in 2014. She is enthusiastic about the sciences and enjoys donating her time to promote and serve these local organizations.

Director

Fu-Tyan Lin

Fu-Tyan received his bachelor degree in Physics and Teaching in 1962 from the National Taiwan Normal University (Taipei, Taiwan). He enjoyed seven years of teaching in high schools and colleges in Taiwan. He came to the United States for his graduate studies in August 1969. Fu-Tyan received his MS in Physics in 1971 and his Ph.D. in polymer science in 1979 from the University of Akron (Akron, OH). During his graduate studies, he worked as a technician for the Physics Department (1971 to 1973) and as an NMR Spectroscopist for the Institute of Polymer Science (1973 to 1978). He was the manager of chemistry instrumentation at the University of Louisville (Louisville, KY) from 1978-1980. In June 1980, he became the director of the NMR Lab as well as research assistant professor in The Department of Chemistry at the University of Pittsburgh. He was promoted to research associate professor in November 1986 and retired from the University of Pittsburgh in January 2005. In 2005, he founded LIST NMR, an NMR services and consulting lab. His current research interest is the separation and characterization of natural products. Fu-Tyan is the author and co-author on more than sixty papers and has presented more than twelve papers at academic institutions and conferences. In October 2005, he presented the plenary lecture at the Beijing Conference and Exhibition on Instrumental Analysis (BCEIA) in Beijing, China. He presented another lecture at the International Forum for BCEIA on October 12th, 2011 in Beijing. He was one of the opening ceremony speakers at the 15th BCEIA in Beijing on October 24, 2013.

Fu-Tyan has been an active member of American Chemical Society (ACS) since 1978, a member of the Spectroscopy Society of Pittsburgh (SSP) since 1982, a member of the Society for the Analytical Chemists of Pittsburgh (SACP)

since 1999, and a member of the Pittsburgh Conference (PITTCON) since 1993. He has served the role of chair on various committees over the past several years for PITTCON, SSP, SACP and ACS Pittsburgh Section. He was chair for the Pittsburgh Section of the ACS in 2008, chair of SSP in 2003-2004, and chair for SACP in 2010-2011. He served as a chair for the Pittsburgh ACS Polymer Group in 1985-1986 and was president of Pittsburgh Chapter of The Monte Jade Science and Technology Association in 1999.

Fu-Tyan enjoys sewing, cooking, reading and classical music.

Dave Gallagher

David is currently an Associate Professor of Chemistry and Chair of the Department of Chemistry at Carlow University. A lifelong Pittsburgh native, David credits the Pittsburgh region with its abundance of educational and professional opportunities along with excellent mentoring for helping to develop his passion for and interest in the chemical sciences. David began his education in Chemistry at Seton LaSalle high school with instruction from Br. Eric Henderson. After graduation, David pursued studies at the University of Pittsburgh, graduating in 1993 with a B.S. in Chemistry. During his tenure at Pitt, David had the opportunity to be mentored by George Bandik and Andrew G. (Jack) Sharkey, performing undergraduate research for the latter in the area of trimethylsilyl derivitization as a tool for lowering detection limits of environmental pollutants in GC-MS.

During his time at Pitt, David was very active as a student aide to the Pittsburgh conference as well as serving as President of Pitt's ACS-SA chapter. Following graduation from Pitt, David pursued graduate studies at Duquesne University, earning his Ph.D. in 1999, working in the lab of Mitchell E. (Mitch)

Continued on [Page 5](#)

National Chemistry Week 2015 Illustrated Poem Contest: “Chemistry Colors Our World”

The Pittsburgh Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten - 12th grade. Contest is open only to students who live in the following Ohio, Pennsylvania, and West Virginia counties:

West Virginia: Brooke, Hancock, Jefferson and Ohio Pennsylvania: Allegheny, Armstrong, Beaver, Butler, Cambria, Clarion, Fayette, Greene, Indiana, Jefferson, Somerset, Venango, Washington, and Westmorland

Contest Deadline: **Entries must be received at the address below by Friday, October 23, 2015.**

Prizes: \$50 1st Place and \$25 2nd Place in each of 4 grade categories: K-2nd, 3rd-5th, 6th-8th and 9th-12th grades.

Contact: Mail entries to: Michael Mautino, 3485 Frye Ave, Finleyville, PA 15332. Include on back of entry: student name, grade, school name, teacher name, teacher phone number and teacher e-mail address. For home school students please use parent/guardian information in place of teacher.

Winners of the **Pittsburgh Section ACS** illustrated poem contest will advance to the ACS National Illustrated Poem Contest!

Write and illustrate a poem using the NCW theme, “**Chemistry Colors Our World**”. Your poem must be **no more** than 40 words, and in the following styles to be considered:

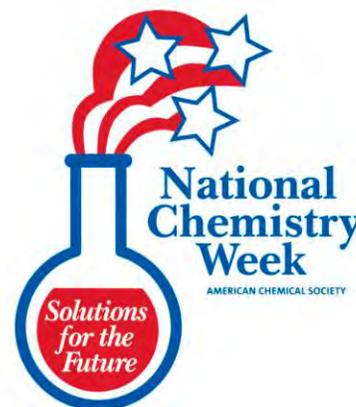
HAIKU • LIMERICK • ODE • ABC POEM • FREE VERSE • END RHYME • BLANK VERSE

Participants are encouraged to explore topics related to:

- Dyes and pigments
- Absorbed and reflected light
- The chemistry of fireworks
- Natural and artificial colors
- Any other relevant topics

Entries will be judged based upon:

- Relevance to and incorporation of the theme
- Word choice and imagery
- Colorful artwork
- Adherence to poem style
- Originality and creativity
- Overall presentation



Contest Rules:

- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the NCW 2015 theme, “**Chemistry Colors Our World**”.
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined sheet of paper (of any type) not larger than 11” x 14”. The illustration must be created by hand using crayons, watercolors, other types of paint,

colored pencils or markers. The text of the poem should be easy to read and may be printed with a computer, before the hand-drawn illustration is added, or the poem may be written on lined paper which is cut out and pasted onto the unlined paper with the illustration.

- Only one entry per student will be accepted.
- All entries must include an entry form.
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners’ names, likenesses and entries for editorial, advertising and publicity purposes.

2016 Executive Board Bio's Continued from Page 3

Johnson, where the focus of his dissertation work centered on strategies for Near-Infrared Diode Laser Induced Fluorescence Detection of Bioactive Analytes in Capillary Electrophoresis. Upon completion of his doctoral work, David stayed at Duquesne to perform postdoctoral research in the lab of Dr. Bruce Beaver where projects ranged from analytical methods to determine the tannin content of white oak trees in western PA forests to spectroscopic investigation of the high-temperature auto-oxidation of jet fuels.

In the fall of 2000, David was appointed to the faculty of Carlow University. During his fifteen year tenure at Carlow, David has helped the both the chemistry major program and the department to grow. He maintains an active undergraduate research program and teaches a variety of courses across the program curriculum. David also serves as faculty advisor to the Carlow University ACS-SA chapter, which has been recognized by the national ACS for the last twelve consecutive years. David maintains memberships in the national and local ACS, as well as SACP and SSP and is looking to get more actively involved, specifically in service to the section in the role of director. He is looking for ways to "give back" to the scientific community and to mentor the newer generations of scientists in the Pittsburgh

community. He is also interested in finding ways to increase opportunities for partnerships among educational institutions, industry and professional organizations in the Pittsburgh area. In his free time, David enjoys spending time with his wife Jennifer, and their two young children Jacob and Emma.

Councilor

Rich Danchik

Rich received his B.S. in Chemistry from Duquesne University and earned his Ph.D. in Analytical Chemistry from Wayne State University. He joined ALCOA in the Analytical Chemistry Division of Alcoa Laboratories where his research interests included atomic absorption spectrophotometry, electroanalytical techniques, selective ion electrodes and the development of automated process control systems. Rich became Manager of ALCOA's Environmental Health Laboratory and had the responsibility for the development of new methodology and instrumentation in the field of industrial hygiene chemistry. He also managed the development and operation of the Laboratory. He is now consulting in the areas of analytical chemistry, environmental and industrial hygiene chemistry.

He spends his time serving a variety of societies: American Chemical Society (Councilor-1991 to present;), American Industrial Hygiene Association, American Institute of Chemists

(Fellow), American Society for Testing Materials(Fellow)-D-19,Committee on Water Analysis and D-22,Committee on Air Quality(Chairman- 2000 to 2005, Vice-Technical Chair- 2005 to 2012,Vice-Chairman Membership 2012 to present), Sigma Xi, Society for Analytical Chemists of Pittsburgh(SACP), Spectroscopy Society of Pittsburgh(SSP), and Phi Lambda Upsilon.

Rich was the 1991 Chairman of the Pittsburgh Section of the ACS. He has been actively involved with Pittcon and was the 1986 Conference President. He has chaired numerous committees for the SSP. He was the 1979-1980 Chairman of the SACP. He is also active in the National ACS and is a member of the International Activities Committee (1991-2000; 2005 to present) and was the Subcommittee Chairman of the Meetings and Exposition Committee (2000 -2006). He was a Pittsburgh Section Director for the ACS (1992-2004). He represents the United States on the International Standards Organization (ISO) for Workplace Atmospheres. He received the Moyer Thomas Award from ASTM in 2008. He received several awards from ACS for service as a Councilor (2015) and for the ACS/Pittcon International Travel Program. He has been a member of the Advisory Board of Analytical Chemistry and has authored or co-authored a number of technical articles and has previously authored the Nonferrous Metallurgy

Continued on [Page 11](#)

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

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 Save the Date! 

ACS on the Road

Mildred Perry Memorial Lecture

SATURDAY, NOVEMBER 7TH

SETON HILL UNIVERSITY

Join local ACS members for an undergraduate poster session, lunch buffet, & speaker on Seton Hill's beautiful campus.

FULL SCHEDULE TO BE RELEASED



Sponsored by the ACS Pittsburgh Section
<http://www.pittsburghacs.org/outreach/mildred-perry-memorial-lecture/>

Please contact Evonne Baldauff
(ebaldauf@waynesburg.edu) with questions.



Society for Analytical Chemists of Pittsburgh



October Meeting
Wednesday, October 5, 2015, 2015
8:00 PM, Duquesne University

Cocktail Hour and Dinner - City View Cafe
Business Meeting and Technical Program - Mellon Hall

“Interfacing Analytical and Organic Chemistry to Create Sensitive, Selective, and Simple Point-of-Need Assays”

Scott Phillips, Ph.D.
Martarano Associate Professor of Chemistry
Pennsylvania State University

Abstract: This presentation will describe our most recent platforms for achieving qualitative and quantitative assays in resource-limited environments. The platforms include paper microfluidics and new polymers that depolymerize from head to tail when a target analyte is present. The assays use measurements of time for the readout. These TIME tests (i.e., Time-based, Inexpensive, Multi-analyte, Easy tests) are compatible with assays for small molecules, inorganics, enzymes, and antigens. Perspective also will be provided on how we converged onto this bottom-up assay strategy.

Biography: Scott Phillips is the Martarano Associate Professor of Chemistry at the Pennsylvania State University. He received his B.S. degree from California State University, San Bernardino in 1999 and earned his Ph.D. from Paul A. Bartlett at UC Berkeley in 2004. After a two-year appointment as a Damon Runyon Cancer Research Foundation postdoctoral fellow in Matthew Shair’s group, Scott received training in analytical and materials chemistry as an NIH Ruth L. Kirschstein post-doctoral fellow in George Whitesides’ group. He started his independent career at Penn State in 2008. His research group develops thermally-stable reagents for translating selective molecular detection events into amplified responses for use in point-of-need diagnostics and stimuli-responsive materials. Much of this work has coupled analytical, organic, polymer, and materials chemistry, and has included advances in paper microfluidics. Scott has received a number of awards including the 2015 ACS Division of Analytical Chemistry Arthur F. Findeis Award for Achievements by a Young Analytical Scientist, Eli Lilly and Company Young Investigator Award, Beckman Foundation Young Investigator Award, Camille & Henry Dreyfus New Faculty Award, DARPA Young Faculty Award, Popular Mechanics Breakthrough Award, 3M Non-Tenured Faculty Award, and he has been named an Alfred P. Sloan Research Fellow.

Dinner Reservations: Please email the SACP Administrative Assistant, Valarie Daugherty at daugherty@pittcon.org by Wednesday, September 30, 2015 to make dinner reservations. Octoberfest Dinner. Should you not have email, please call 412-825-3220, ext 204. 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 Valarie know when you leave 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 sticker. Please contact Duquesne University, if any difficulties should arise.

November Meeting

Monday, November 2, 2015
8:00 PM, Duquesne University

“Comprehensive Lipidome Profiling to Elucidate the Functional Role of Lipids in Colorectal Cancer Malignancy and Metastatic Progression”

Gavin Reid, Ph.D., Professor of Bioanalytical Chemistry
School of Chemistry and the Department of Biochemistry and Molecular Biology, The University of Melbourne

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. To apply for the funds, one should simply complete the application (available on our web site at www.pittsburghACS.org) and return it by the relevant deadline to:

Pittsburgh Section ACS
Travel Grants
Attn: Dr. Michelle Ward
Room 107 / Chevron Science
Center
219 Parkman Avenue
Pittsburgh, PA 15260

Each year, the Pittsburgh Section of the ACS will award up to four \$500 grants to aid our undergraduate/graduate student members in presenting papers or posters at ACS Meetings. Awards will be made based on the scientific merit of the paper/poster to be presented and financial need. The deadlines for receipt of applications are 12/01/2015 (for travel to be completed by 06/30/2016) and 06/01/2016 (for travel to be completed by 12/31/2016.)

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 Dr. Michelle Ward, muscat@pitt.edu or 412-624-8064.



The Spectroscopy Society of Pittsburgh Joint with the AAAP Group (Amateur Astronomers Association of Pittsburgh)



October Meeting
Wednesday, October 21, 2015
Duquesne University

5:30 PM Technology Forum Speaker's Presentation
Power Center Ballroom Section C

5:30 PM Social Hour – Power Center Fides Shepperson Suite • 6:45 PM
Dinner – Power Center Ballroom Section C

8:00 PM Business Meeting – Power Center Ballroom Section C • 8:15 PM
Technical Program Speaker's Presentation – Power Center Ballroom Section C

TECHNOLOGY FORUM - 5:30 PM

“The Mystery of the Brashear Time Capsule Revealed!”

Arthur Glasser, Educator, Senator John Heinz History Center

In the spring of 2015, a support wall of the abandoned Brashear Optical Shop at 2016 Perrysville Ave. collapsed. The City of Pittsburgh hired a salvager to demolish the unsafe structure. During this work, a steel box that served as a time capsule was discovered. This historical discovery generated a great deal of excitement when the contents of the box were made public. There was a question of ownership of the box and its contents between the salvager and other contending parties. By June, an agreement was reached making the Senator John Heinz History the owner and conservator. This presentation will focus on the contents of the time capsule and what has been learned about Brashear, the Optical Shop, the Brashear family and the Perrysville neighborhood

Biography: The speaker grew up in the mill town of McKeesport where very little of the night sky was ever visible. He received his first telescope from a friend in 1973 and joined the Amateur Astronomer's Association of Pittsburgh shortly thereafter. During a teaching sabbatical from the Mt. Lebanon School District in 1982, Art joined the Allegheny Observatory to conduct an archival inventory of materials in the building. Knowledge gained from this endeavor earned him a position as public evening lecturer for the observatory. Art eventually became known as the “unofficial historian of the observatory”. He has since written a manuscript detailing the history of the observatory. He currently teaches visiting university students and is an educator at the Heinz Regional History Center.

TECHNICAL PROGRAM - 8:15 PM

“New Horizons Mission to Pluto”

Professor William B. McKinnon

Washington University

Dinner Reservations: Please register on-line at <http://www.ssp-pgh.org> and click on SSP Monthly Meeting “More Info” link to make dinner reservations NO LATER THAN Thursday, October 15, 2015 at noon. Oktoberfest Dinner will cost \$10 (\$5 for students) and checks must be made payable to the SSP. If you have any dietary restrictions, please indicate them when you RSVP. **Parking Instructions:** The Duquesne University Parking Garage is located on Forbes Avenue. Upon entering the garage, receive parking ticket and drive to upper floors. Pick up a parking chit at the registration desk upon entering the Power Center.



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Pittsburgh Section Wins ChemLuminary Awards

The Pittsburgh Section ACS was awarded two prestigious ChemLuminary Awards on August 18, 2015, during the ACS's 17th Annual ChemLuminary Awards event, held in Boston, MA as part of the ACS's 250th National Meeting. The Pittsburgh Section ACS' National Chemistry Week (NCW) program was awarded "**Outstanding Community Involvement in NCW**", recognizing the 42 organizations that participated in the Section's 2014 NCW program.

The Pittsburgh Section ACS was also the recipient of the "**Outstanding Performance by a Local Section – Large Size Category.**" This award recognized the many outstanding programs and activities the Pittsburgh Section provides members each year, along with recognizing the successful Central Regional Meeting held in Pittsburgh in October 2014. The Pittsburgh Section wishes to thank all of its officers, committee members, and volunteers who continue to help the Section serve the needs of its members.

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!

REPORT ON: ACS Fall 2015 NATIONAL MEETING

Boston, MA

Four of ACS Pittsburgh Section Councilors were in attendance at Boston.

The meeting attracted approximately 13,888 attendees and an exposition of 475 booths.

The Candidates for President- Elect, 2016 are:

- G. Bryan Balazs
- Allison A. Campbell

The Candidates for Directors-at-Large for a 2016-2018 term: Lee H. Latimer, William R. Leenstra, Ingrid Montes, Mary jo Ondrechen, and Thomas W. Smith. 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 October 2.

The Council elected Christopher J. Bannochie, Michelle V. Buchanan. Alan B. Cooper, Donna G. Friedman, and Carolyn Ribes for a 2016-2018 term and Jeffry Duffy-Matzner for a two year term, 2016-2017, on the Committee on Committees.

The Council elected Frank D Blum, Mary K. Carroll, Lisa Houston, and Lee H. Latimer for a 2016-2018 term on the committee on the Council Policy Committee.

The Council elected Mary K. (Moore) Engelman, Roland F. Hirsch, C. Marvin Lang, Les W. McQuire, and Donovan R. Porterfield for a 2016-2018 term on the Committee on Nominations and Elections.

The Committee on Meetings & Expositions reported that the total meeting registration was 13, 888. Of these, 8,129 were regular registrations, 1278 were exhibitors, 3,462 were students, 593 were exposition only, and 426

guests. The exposition had 475 booths with 325 companies. The meeting had over 9,271 papers presented.

The Council voted to approve the Petition on Preferential Voting, contingent upon confirmation by the ACS Board of Directors.

The Council voted to approve the Petition on Member Expulsion, contingent upon confirmation by the ACS Board of Directors.

The Council voted to approve the establishment of the Australia, Brazil, Nigeria, Peru, and United Arab Emirates Chemical Sciences Chapters, subject to confirmation by the Board of Directors.

The Council passed several resolutions, including one acknowledging President Diane Grob Schmidt's service as presiding officer of the Council and expressing gratitude for her 48 years of service to the Society.

The Committee on Meetings and Expositions has decided to discontinue free distribution of the hard copy program book starting in 2016. Those who pre-register for the meeting may purchase a copy of the program book for \$10 (pick up on site), and copies will be available at the meeting for \$20. The PDF version of the national meeting program will be more prominently displayed on the ACS website for those who would like to print portions for themselves.

On the recommendation of the Committee on Budget and Finance, the Board of Directors voted to approve an advance member registration fee of \$415 for national meetings held in 2016; to authorize a new program funding request for the ACS Festival Series program; and to reauthorize

funding for the ACS Science Coaches program.

The Budget and Finance Committee reviewed the Society's 2015 probable year-end financial projection which expects a Net Contribution from Operations of \$15.5 million, or \$2.1 million higher than the Approved Budget. Total revenues are projected at \$512.1 million, which at \$481,000 favorable is essentially on Budget. Total expenses are projected at \$496.9 million, which is \$1.6 million or 0.3% favorable to the Approved Budget. This variance is the result of lower-than-budgeted expenses across almost all major expense categories.

SOCED voted to make the pilot program of ACS International Student Chapters a permanent feature of the student chapters program. ACS has chartered 15 International Student Chapters since the pilot launched last year.

The Committee on Economic and Professional Affairs reported that ACS ChemCensus data showed that Domestic Unemployment among ACS member chemists edged slightly upwards in the last year from 2.9% to 3.1 %. Still, current unemployment rate is lower than it was from 2009 to 2013. The ChemCensus also showed a modest salary increase year-over-year. For the first year since 2004, the percentage of ACS members working in manufacturing increased. These trends are mirrored by a slight decline in the percentage of members in academia. Other workforce categories remained relatively flat.

The Committee on Local Section Activities will award 20 Innovative Project

Continued on [Page 11](#)

Fall National ACS Meeting Report Continued from Page 10

Grants for a total of \$39,886. This brings the total for 2015 to 34 IPG awards totaling over \$75,000. Since the inception of the program, a total of 166 local Sections have received at least one award.

The Committee on Divisional Activities (DAC) voted to fund fourteen Innovative Project Grants totaling \$77,050.

The Committee on International Activities reviewed and approved new chapter applications initiated by members in Brazil, Nigeria, Peru and United Arab Emirates.

The Committee on Membership Affairs (MAC) reported that as of July 31, the ACS membership was 156,561; 2055 fewer than on the same date in 2014. The number of new members who have joined this year is 14,457; 147 fewer than this time last year. The Society's overall retention rate is 84%. The number of international members has increased to 25,989; 1014 higher than in July, 2014. The international retention rate is 85%.

The Constitution and Bylaws Committee certified 14 bylaws in 2015, and has reviewed bylaws for 9 local sections and 2 Divisions since the spring meeting in Denver.

The Committee Chemical on Safety reported that it had been requested by the Chemical Safety Board (CSB) to assist in developing guidance with methods to recognize, assess, and control hazards in research laboratories. The CCS released its final report, "Identifying and Evaluating Hazards in Research Laboratories," in 2015. Councilors and their institutions who are engaged in research were urged to consider using this guide to help keep

their laboratories safer. This report is available at www.acs.org/safety.

The Committee on International Activities approved the ACS Global Innovation initiatives (Gii) Singapore White Paper and chose South America and Mexico for the 2017 joint ACS-Pittcon program to foster exchange and research collaboration in Analytical Chemistry.

Project SEED announced another successful SEED program with participation of 411 high school students. These students are currently placed in over 100 laboratories across the nation, under the supervision of over 400 volunteer scientists and coordinators in 39 states, the District of Columbia, and Puerto Rico. The committee awarded 32 first year non-renewable College Scholarships to SEED alumni in 17 states and Puerto Rico.

The Chemical Technician Affairs Committee is now accepting nominations for the 2016 National Chemical Technician Award. This annual award is presented in recognition of outstanding technical and communication skills, reliability, leadership, teamwork, publications, and presentations. For more information about this award, please visit the committee website at acs.org/cta.

Respectfully submitted, Pittsburgh
Section Councilors

Richard S. Danchik (Author)
Mike Mautino
Michelle Ward
Robert Mathers

2016 Executive Board Bio's Continued from Page 4

Review for Analytical Chemistry. He was also a member of the Editorial Board of the Applied Occupational and Environmental Hygiene Journal.

Joe Jolson

Joe, who has been chair of the ACS-Pittsburgh Section employment committee since 2004, has most notably successfully quadrupled annual attendance at the annual Job Searching for Chemical Professionals workshop. Additionally, he has been an ACS National career counselor since 2008, chaired the SACP employment committee from 2010 to 2015, and was employment committee chair for the 2014 Central Regional Meeting of the ACS. He has been an ACS-Pittsburgh Section director since 2014 and an alternate councilor since 2010. In 2015, he helped the Carnegie Library of Pittsburgh obtain SciFinder access. Dr. Jolson founded Custom Client Solutions in 2004 to provide battery, gas detection, and respiratory protection services to clients. From 2000 – 2004, he oversaw the development of emergency-breathing devices and air quality monitors for CSE Corporation. From 1979 – 2000, he analyzed detection technologies for potential use in emerging markets; facilitated qualification testing and applications support for gas detectors; led teams that developed gas sensors, gas detectors, and lithium batteries; and set up a specialty battery facility for the Mine Safety Appliances Company, Inc. Dr. Jolson has 11 U.S. Patents, 13 publications, and has given 27 presentations. He has a Ph.D. in analytical chemistry from SUNY at Buffalo.

The Greater Pittsburgh Area Women Chemists Committee

Names Award Recipients

WCC Award for Encouraging Women into the Chemical Sciences



Dr. Jeffrey J. Rohde is the 2015 recipient of the Greater Pittsburgh Area Women Chemists Committee Award for Encouraging Women into the Chemical Sciences.

This award recognizes significant accomplishments by individuals who have stimulated or fostered the interest of women in chemistry, promoting their professional developments as chemists or chemical engineers. Jeff received his B.S. from The Ohio State University in 1990, his Ph.D. from Harvard University in 1996, and worked in drug discovery for Abbott as a medicinal chemist for nearly 13 years. Jeff joined the faculty of the Franciscan University of Steubenville, Department of Chemistry and Physics in 2009 and worked with the university to establish the Franciscan Institute for World Health (FIWH) in late 2010. FIWH supports undergraduate internships focused on Neglected Diseases research like the 2015 FIWH-AbbVie Undergraduate Medicinal Chemistry Summer Program that are designed for educational, humanitarian, and career learning purposes. This will mark the 5th year of Jeff's co-leadership of this unique academic industrial partnership that has already provided this rich experience to 26 undergraduates, including 11 young women, from more than 10 different colleges and universities. With the success of FIWH, Jeff and Franciscan broadened their mission in 2013 to provide support for undergraduate research opportunities in all STEM fields with the establishment of the Franciscan Institute for

Science and Health (FISH). In 2014, Jeff received a joint appointment as a Scholar in Residence at Duquesne University in Pittsburgh where he co-supervised students for the first time in the Summer Integrated Computational and Experimental Chemistry NSF-REU Program together with Prof. Jeffrey D. Evanseck. In the summer of 2015, Jeff continued to participate in this program as well as launch a new Summer Internship Program collaboration with NIH/NCATS in Rockville, MD through FISH to support 8 additional undergraduate interns (4 women and 4 men).

Jeff is grateful to the many talented, hard working, and accomplished women chemists who wrote letters of support on his behalf for this award to the WCC. They represent colleagues, friends, and students throughout Jeff's career who are also current bench chemists and compliance engineers at AbbVie and Boehringer Ingelheim; graduate students at the University of Colorado at Boulder and Massachusetts Institute of Technology; and staff and faculty at Franciscan University. And, in particular, Jeff would like to specially thank the number one woman chemist in his life who, in addition to collaborating together with Jeff on much of his undergraduate teaching and research in recent years, coordinated and organized this nomination, Bridget D. Rohde, Ph.D.

Jeff invites all budding undergraduate scientists who are likeminded to consider one or more of the many undergraduate internships/programs in which he is involved. More information can be found at <http://www.franciscan.edu/fish/> or email inquiries can also be sent directly to Jeff at jrohde@franciscan.edu.

WCC Award for Excellence in the Chemical Sciences



Dr. Jane Chan is the 2015 recipient of the Greater Pittsburgh Area Women Chemists Committee Award for Excellence in the Chemical Sciences.

This award recognizes the achievements of female chemists and chemical engineers in the greater Pittsburgh area who have a record of accomplishment in their field. Jane received her B.A., M.S. and Ph.D. in Physical Chemistry from New York University in New York, NY. While writing her doctorate thesis, she did post-doctoral research under Professor Manfred J. D. Low on surface catalysis using FTIR. She joined the Bettis Atomic Power Laboratory, a DOE facility managed by Westinghouse Electric Corporation (and now by Bechtel Marine Propulsion Corp.) Her responsibilities at Bettis have included understanding chemistry control and corrosion in nuclear plant steam generators. Her work requires the knowledge of chemistry in all areas, such as analytical, physical, inorganic, organic, polymer, and surface chemistry, as well as material science, corrosion science, and chemical engineering.

Shortly after arriving in Pittsburgh, through the Crucible, a publication of the local chapter of ACS, Jane learned about the monthly technical seminars sponsored by the Spectroscopy Society of Pittsburgh (SSP) and the Society for Analytical Chemists of Pittsburgh (SACP). In these meetings, she met



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:

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- 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)

Greater Pittsburgh Area Women's Chemists Committee Award Recipients Continued from Page 12

coworkers from different departments of Bettis as well as many chemists in the Pittsburgh area. She was invited to join the SSP and the SACP Committees, and was elected Chairman of the SACP serving in 2001-2002. She has chaired many SSP and SACP scholarships, grants, awards, and continuing education subcommittees including the prestigious Pittcon Achievement, Pittsburgh Analytical Chemistry, and Pittsburgh Spectroscopy Awards. In 1989, she was invited to join the Organizing Committee of the Pittsburgh Conference (Pittcon) on Analytical Chemistry and Applied Spectroscopy, and has chaired 9 different subcommittees including Technical Program, Short Courses, Registration, etc. From Pittcon attendance, she has brought back many state-of-the-art techniques and instrumentation to Bettis.

Jane has a passion for science and Christian outreach. As her interest in chemistry was inspired by her high school chemistry teacher, she likes to introduce science to students, especially to girls at young ages. At Bettis, she is an active member of the Bettis Chapter of the U.S. Women in Nuclear (US WIN), an organization for women and men working in the nuclear industry. She participated in science and engineering outreach activities for local area middle and high school girls using fun and educational activities to sparkle their interests in science and engineering.

ACS National Searching for Individuals to Serve on Selection Committees

ACS National is searching for qualified individuals to serve on the 2017-2018 National Awards Canvassing and Selection Committees. If you are interested in serving the chemical community in this capacity, or if you would like more information, please email Evonne Baldauff at ebaldauf@waynesburg.edu. Submissions are due on October 16th.

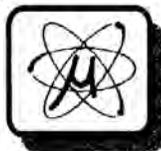


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Volunteers Needed!

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

Crucible Deadline

The deadline for items submitted to The Crucible is the 1st of the month prior to publication.

For example, all items for the November 2015 issue must be to the editor by October 1, 2015.

The Crucible

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ADVERTISERS INDEX

Carnegie Library of Pittsburgh	9
Micron inc.	14
NuMega Resonance Labs	14
Robertson Microlit Laboratories	14
Society for Analytical Chemists of Pittsburgh	14
Spectroscopy Society of Pittsburgh	14

The Crucible

A newsletter of the Pittsburgh Section of the American Chemical Society

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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

Wednesday, October 5

Society for Analytical Chemists of Pittsburgh

“Interfacing Analytical and Organic Chemistry to Create Sensitive, Selective, and Simple Point-of-Need Assays”

Scott Phillips, Ph.D., Martarano Associate Professor of Chemistry, Pennsylvania State University
Duquesne University, Pittsburgh, PA

Wednesday, October 21

The Spectroscopy Society of Pittsburgh

“New Horizons Mission to Pluto”

Professor William B. McKinnon, Washington University

Technology Forum

“The Mystery of the Brashear Time Capsule Revealed”

Arthur Glasser, Educator, Senator John Heinz History Center
Duquesne University, Pittsburgh, PA

Friday, October 23 and Saturday, October 24

National Chemistry Week

“Chemistry Colors Our World”

Carnegie Science Center, Pittsburgh, PA

Wednesday, November 2

Society for Analytical Chemists of Pittsburgh

“Comprehensive Lipidome Profiling to Elucidate the Functional Role of Lipids in Colorectal Cancer Malignancy and Metastatic Progression”

Gavin Reid, Ph.D., Professor of Bioanalytical Chemistry, School of Chemistry and the Department of Biochemistry and Molecular Biology, The University of Melbourne
Duquesne University, Pittsburgh, PA

Saturday, November 7

ACS On the Road Mildred Perry Memorial Lecture
Seton Hill University