



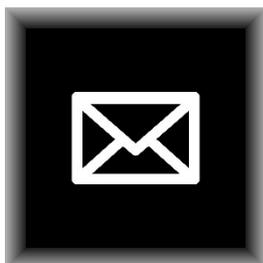
The Crucible



www.pittsburghacs.org

Volume: CI No.8

April 2016



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.

You are receiving this email because you opted-in to receive it or due to your relationship with ACS.
To ensure that you continue to receive our emails, please add us to your address book or safe list.

[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.

Contents ...

New Email Service for the ACS	1
Pittsburgh Section Magnet Mail	
Chemists Celebrate Earth Day 2016	2
Illustrated Poem Contest	
Society for Analytical Chemists of Pittsburgh April Meeting	3
SACP-SSP Presents: Continuing Education Joint Symposium Epigenetics	4
Pittsburgh Section ACS Energy Technology Group April Meeting	6
The Spectroscopy Society of Pittsburgh April Meeting and Technology Forum	7
Mass Spectrometry Discussion Group of Pittsburgh	8
Applications for Student Travel Awards	9
2016 Job Search Workshop Report	10
Attention: Speakers Wanted	11
Advertiser's Index	13
Calendar	14

Chemists Celebrate Earth Day

2016 Illustrated Poem Contest



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

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

Contest Deadline: Entries must be received by Friday, April 22, 2016 (Earth Day!).

First Prize of \$50 will be awarded 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

For an entry form, please include on the back of each entry the student's name, grade, and school name, teacher's name, phone number and e-mail address. For home school students please use parent/guardian information in place of teacher. For student confidentiality, please DO NOT submit student's home phone number or personal e-mail address.

Winners of the Pittsburgh Section ACS illustrated poem contest will advance to the ACS National Illustrated Poem Contest! Questions: contact michael.mautino@covestro.com

Write and illustrate a poem using the CCED theme, **"The Great Indoors - Your Home's Ecosystem."** 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

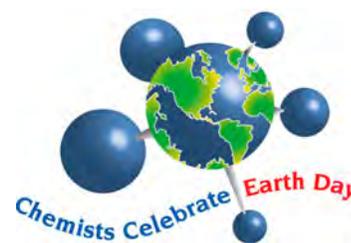
Possible topics related to water and chemistry include:

- Indoor Air
- Mold
- Odor
- Indoor Plants
- Water
- Perfume

Entries will be judged based upon:

- Relevance to and incorporation of the theme
- Word choice and imagery
- Colorful artwork

- Various physical properties of water
- Any other relevant topics



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 CCED 2016 theme, **"The Great Indoors - Your Home's Ecosystem."**
- 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.



Society for Analytical Chemists of Pittsburgh



April Meeting - Former Chair Night Monday, April 4, 2016 Duquesne University

Cocktail Hour - 5:30 PM • Dinner - 6:30 PM - City View Cafe
Business Meeting 7:40 PM • Technical Program 8:00 PM - Africa Room (3rd floor)

“Integration of Proteomics Data (CPTAC) with Genomics Data (TCGA) Produces a More Unified Snapshot of Tumor Biology”

Henry Rodriguez, MS, PhD, MBA
Director, Office of Cancer Clinical Proteomics Research
Office of the Director, National Cancer Institute, NIH

Abstract: The National Cancer Institute’s Clinical Proteomic Tumor Analysis Consortium (CPTAC) program was established to comprehensively identify and quantitate proteins that derive from alterations in cancer genomes. CPTAC, which involves a national consortium of researchers who apply state-of-the-art standardized proteomic workflows to comprehensively genomically-characterized tumors (such as those from The Cancer Genome Atlas, TCGA – a joint effort of the National Cancer Institute and the National Human Genome Research Institute), is now revealing new biological insights that help us better to understand the proteogenomic complexity of cancer. This seminar will highlight how deep proteomic analysis in combination with deep genomic analysis produces a unified understanding of tumor biology, and discuss the public resources (data, assays, reagents) being developed for future studies by the cancer research community.

Biography: Dr. Henry Rodriguez is Director of the Office of Cancer Clinical Proteomics Research at the National Cancer Institute (NCI), National Institutes of Health (NIH). Dr. Rodriguez is recognized as a global leader in the implementation of proteogenomics to enhance our understanding of cancer biology and its diseases. Prior to joining the NCI, Dr. Rodriguez was Director of the Cell and Tissue Measurements Group (research areas in genomics, proteomics, imaging, and informatics) at the National Institute of Standards and Technology, (NIST), and prior to that served as Program Analyst to the NIST Director, was Director of the Tissue Engineering program, and served as Principal Scientist in the DNA Damage and Repair program, all at NIST. Dr. Rodriguez received his M.S. in biology/toxicology from Florida International University, Ph.D. in cell and molecular biology from Boston University, and M.B.A. in finance and management from Johns Hopkins University Carey Business School. Research fellowships were conducted at The Scripps Research Institute (La Jolla, California) and City of Hope National Medical Center (Duarte, California).

Dinner Reservations: Please email the SACP Administrative Assistant, Valarie Daugherty at daugherty@pittcon.org by Monday, March 28, 2016 to make dinner reservations. 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.



SACP - SSP presents:
**Continuing Education
 Joint Symposium**

Epigenetics

Date: Saturday, April 9, 2016
Time: 9:30 AM – 1:30 PM (lunch included)
Location: Old Town Buffet (formerly Tambellini/Misaki)
 860 Saw Mill Run Blvd (Route 51S) Pittsburgh, PA 15226
<http://www.misakiexperience.com/>

Agenda:

9:30 am	Registration
10:00 am	Introduction
10:15 am	Gins of the Fathers: Can Alcoholism be Epigenetically Inherited? By Dr. G. E. Hormanics
11:15 am	Epigenetic Changes in Cancer: Uses for Early Detection and Therapy Selection by Dr. J. G. Herman
12:15 pm	Q & A and Luncheon
1:30 pm	Closing

- Open to the Public by Advanced Registration
 - Registration Fee: \$10.00 Per Person
 - Registration Deadline: **April 4, 2016**

To register, complete the form below, and send it with a check of \$10.00 payable to:
 Spectroscopy Society of Pittsburgh
 c/o Ms. Amy Bovino
 300 Penn Center Blvd., Suite 332, Pittsburgh, PA 15235

Name _____ Phone No. _____

Institution _____ E-mail Address _____

Street Address _____

**SACP - SSP presents:
Continuing Education
Joint Symposium**

Gins of the fathers: Can Alcoholism be Epigenetically Inherited?

Dr. Gregg E. Homanics, PhD, Professor of Anesthesiology, and Pharmacology & Chemical Biology, University of Pittsburgh

Abstract: Transmission of DNA variants from parent to offspring (i.e., Mendelian inheritance) has been the generally accepted explanation for the familial nature of alcoholism. However, despite decades of intense effort, only a few DNA variants have been identified and they only explain a small fraction of alcoholism heritability. The search for the “missing heritability” has reinvigorated interest in the once discounted theory that traits acquired during an individual’s lifetime can be transmitted across generations. Dr. Homanics will challenge the dogmatic Mendelian view of inheritance by focusing on investigations of transgenerational epigenetic inheritance (a.k.a., soft inheritance). He will address the provocative hypothesis that alcohol or stress exposure produce enduring epigenetic effects that can be passed through the germline, influence the epigenetic program of descendants, and ultimately impact alcohol drinking and behavioral responses to alcohol.



Dr. Homanics received a Bachelor’s degree in Animal and Veterinary Science from West Virginia University in 1984, a Master’s degree in Animal Science from the University of Kentucky in 1987 and a PhD in Animal Science with a minor in Biotechnology from North Carolina State University in 1991. Following completion of his doctorate, he was a postdoctoral fellow in the Department of Pathology at the University of North Carolina at Chapel Hill. In 1993, he joined the faculty at the University of Pittsburgh. For over 19 years, Dr. Homanics has maintained an active, continuously NIH funded laboratory that is focused on understanding the mechanism of action of alcohol. He has published ~140 peer reviewed publications. Dr. Homanics has received the University of Pittsburgh Survival Skills and Ethics Distinguished Mentor Award, the Department of Anesthesiology’s Most Productive Scientist Award, and a MERIT Award from the National Institutes of Health. He is currently Scientific Director of a multi-institution consortium that is focused on causes and treatments for alcohol use disorders (the Integrative Neuroscience Initiative on Alcoholism-Neuroimmune). At the University of Pittsburgh, he serves/ has served on numerous committees including the IACUC, Department of Laboratory Animals Advisory Committee, the Tenured Faculty and Promotions Committee, the Pharmacology Graduate Executive Committee, and Anesthesiology’s Scientific Affairs Committee. He has also served/chaired numerous grant review panels for the National Institutes of Health, the National Science Foundation, the Medical Research Council, and others.

Epigenetic Changes in Cancer: Uses for Early Detection and Therapy Selection

by James G. Herman, MD, Visiting Professor of Medicine, University of Pittsburgh

Email: hermanj3@upmc.edu, Office: Hillman Cancer Center, Room 2.18d, Phone: 412-623-7769

Abstract: Dr. Herman’s laboratory studies epigenetic changes in cancer, with a focus on lung cancer. Tumor suppressor gene inactivation can occur through genetic mechanisms (deletions, mutations) or through epigenetic silencing, usually associated with promoter region methylation. We first described these changes for well-established tumor suppressor genes (VHL, p16/CDKN2A, BRCA1, APC, MLH1, etc.) and have found epigenetic silencing is a common occurrence for many other genes in cancer. These changes are now considered critical for the development and progression of cancer. Dr. Herman’s laboratory has developed sensitive methods for detection of DNA methylation (Methylation Specific PCR and new modifications of this method) to allow detection of changes in DNA methylation in small, archived tumor biopsies and in body fluids. This has led to molecular detection of cancer changes as a method for early detection in lung cancer (sputum and blood), colon cancer (stool) and other tumor types (pancreas: blood, ovarian: peritoneal fluid, bladder: urine). The presence of epigenetic changes has also been used to determine sensitivity to chemotherapies. A test for detection of methylation of the DNA repair gene MGMT was developed, and it is now being used to assess sensitivity to the alkylating agents, including temozolomide.

Bio on Page 11

Pittsburgh Section ACS Energy Technology Group

Tuesday, April 12, 2016

“Clean Rivers Opportunities with Clean Fuels: Natural Gas MARAD Towboat Conversion Project Highlights”

Dr. Lutitia Clipper, CEO of Clipper Enterprises

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

The Environmental Protection Agency (EPA) instituted new air emissions requirements for marine vessels operating in the United States. Owners of our nation’s aging, inland waterway fleets must now make the financial decision to retrofit, convert, or retire their diesel-powered vessels to meet the new EPA guidelines.

In response, the Pittsburgh Region Clean Cities (PRCC), a non-profit organization, developed Clean Fuels/Clean Rivers, a non-profit consortium initiative focused on building an innovative natural gas marine corridor that extends from the Morgantown, West Virginia area, through Pennsylvania, and down the Ohio River.

Through a cooperative agreement, in October 2015 the Department of Transportation Maritime Administration (MARAD) provided a \$730,000 matching funds grant to Pittsburgh Region Clean Cities (PRCC) to convert a towboat engine from diesel to LNG. Results from this demonstration project will help expand the development and availability of natural gas conversion technology for smaller scale tug, tow, and harbor vessels.

This presentation will discuss the attributes and characteristics illustrating the proven viability of natural gas as an alternative transportation fuel. The presentation will also highlight objectives of this Department of Transportation (DOT) Maritime Administration (MARAD) project for marine operators. This is the first inland waterway MARAD funded project.

Dr. Clipper is an engineer with over 25 years of experience in the natural gas industry and has been a leader in Utica / Marcellus shale field, who is in favor of the widespread implementation of natural gas powered vehicles. She will be serving as the LNG Marine Demonstration Project Manager in the near future. As a Natural Gas Vehicle (NGV) expert, she continually finds new ways to power NGVs on the road, off road, and on rails and waterways. Dr. Clipper has a passion for the use of Natural Gas for transportation because as technology advances, it opens new doors for uses in these areas. Besides running her own company, Dr. Clipper serves on the faculty of Geneva College, on the Engineering Advisory Board at the college, and on the Energy and Public Policy Advisory Group at Carnegie Mellon University.

For reservations, please contact Elliott Bergman at elliott.acstechnology@gmail.com by 7:00 P.M. on Apr. 10, 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.



The Spectroscopy Society of Pittsburgh



April Meeting
Wednesday, April 27, 2016
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

"Pittsburgh's Bridge Legacy"

Geoffrey H. Goldberg, SAI Consulting Engineers

The city of Pittsburgh has a unique place in the history of bridge technology. It's demanding topography creating a need for a massive number of stream crossings of all sizes, and its position as the major producer of steel, the fabric of choice for bridge construction, converged to produce the transportation network that is greater Pittsburgh.

We will survey the contributions made by great Pittsburghers: Andrew Carnegie, John Roebling, Gustav Lindenthal and George Richardson; and explore why the city looks like it does.

Bio on Page 10

TECHNICAL PROGRAM - 8:15 PM

"The Glow on the Horizon: New Sources for Emission and MS"

Gary Hieftje, Indiana University

Although conventional glow discharges, operated at modest (~60W) power levels and vacuum (~1 torr) settings, have long been used for bulk and depth-resolved analysis of solid samples, many scientists have recently turned to atmospheric-pressure glows, which differ in physical properties from reduced-pressure discharges and which open new avenues in spectroscopic analysis. In this presentation, one of the newer atmospheric-pressure glows will be described and evaluated. Termed the Solution-Cathode Glow Discharge (SCGD), the source provides solution-based detection limits that rival or improve upon those available from ICP emission spectrometry; yet the SCGD requires no gas (argon or other) flow, needs no nebulizer or spray chamber, provides surprisingly uncluttered spectra, and operates at power levels typical of those for a conventional glow discharge (~65W). Further, the SCGD can be coupled effectively with the same sort of mass spectrometers that are ordinarily used with an inductively coupled plasma. However unlike the ICP, the SCGD can provide elemental, speciation, and even metallomic information, just by altering the power supplied to the discharge. Finally, an additional alternative to the argon ICP will be described. It offers detection capability like the ICP, but operates on either nitrogen or air, and is powered by a low-cost magnetron similar to those found in home microwave ovens.

BIOGRAPHY: Gary M. Hieftje is Distinguished Professor and Mann Chair of Chemistry at Indiana University in Bloomington, Indiana. His research interests include the investigation of basic mechanisms in atomic emission, absorption, fluorescence and mass spectrometric analysis and the development of instrumentation and techniques for atomic and molecular methods of analysis. He has authored over 600 publications, 10 books, and 18 patents. More than 67 students have received doctorates under his direction.

Dinner Reservations: Please register on-line at <http://www.ssp-pgh.org> to make dinner reservations NO LATER THAN Wednesday, April 20, 2016 at noon. Dinner will cost \$10 (\$5 for students) and checks must be made payable to the SSP. This month's Main Entrée: Nantucket Cod w/Shrimp & Crab Meat or Nantucket Cod w/out Shellfish. Vegetarian Entrée: Zucchini, Squash & Goat Cheese Tart. . . 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.



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

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 06/01/2016 (for travel to be completed by 12/31/2016) and 12/01/2016 (for travel to be completed by 06/30/2017).

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.

2016 Job Search Workshop Report

This year, we had 19 attendees at the Job Searching for Chemical Technicians (JSCT) and 51 at the Job Searching for Chemical Professionals (JSCP) workshops. The total of 70 attendees compared favorably with past years.

On February 19, 2016, 19 chemical technicians attended the ¾-day workshop at Bidwell Training Center. Daniel Eustace presented an overview of the job searching process and Joe Jolson provided information specific to job searching



Dan Eustace lecturing to the JSCP Workshop attendees

in the Pittsburgh region. Logan Miller, SACP co-chair; Karen Johnson, director of Bidwell's chemical laboratory technician program; Paula Kubrick, Bidwell's placement officer, and Deanna Schmuck, Bidwell's computer instructor also attended.

The attendees showed high levels of interest, liked the mock interview sessions, and asked many questions. All stayed for the resume review/Q&A session that Dan, Joe, and Logan ran from the start of lunch to 2:00 pm. All had positive comments about the workshop and were happy to get targeted information, links to the presentations, and the ACS Career Development Guide. The JSCP/T committee was grateful that Bidwell was able to donate the breakfast and lunch.

On February 20, 2016, 51 chemical professionals attended the full-day workshop at the University of Pittsburgh's Chevron Science Center. Special thanks go to Jay Auses, Paul Brezovec, Don Cescon, Michelle Coffman, Dan Eustace, Joe Jolson, Kristy

Long, Hub MacDonald, Marc Portnoff, Manny Schreiber, Andy Takacs and Beth Tomasovic; the volunteers who planned the workshop, staffed the registration table and helped with the resume review and one on one personal consultations. Thanks go to LaShawn Youngblood, receptionist, who scheduled the lecture hall, made the food arrangements and obtained the parking tags; Mary Beth Conroy, facilities coordinator, who took care of tables, chairs, flipcharts, easels, food placement, and housekeeping.

Of the 51 attendees, 46 were students and 5 were mid-career job seekers; 69% were chemists, 18% were chemical engineers, 8% were material scientists 4% were bio-scientists and 2% were forensic scientists. Of the students, 60% were from the University of Pittsburgh, 9% were from Duquesne, 2% were from CMU, and 29% were from other area colleges and universities. 43% of the students were Ph.D. candidates, 16% were M.S. candidates, 24% were B.S. candidates, and the rest were post-doctoral fellows. Timing of the JSCP workshop was ideal for students planning a Spring graduation.

During the morning session, Daniel Eustace presented an overview of the job searching process and Joe Jolson provided information related to job hunting in the Pittsburgh region. Dan was excellent at interacting with the attendees and ran four mock interview sessions. All attendees signed up for 30-minute resume review and career counseling sessions held after

the networking lunch. Attendees liked getting links to the PowerPoint presentations and copies of the ACS Career Development Guide. Contributions from the ACS, SACP, and SSP allow the cost of the 2-day workshop to be managed. As exemplified by the level of interest shown by the attendees, Dan Eustace is an exceptional speaker who interacts well with attendees.

Submitted by Joseph Jolson, Coordinator of the Joint JSCP/T Workshop Committee and Chair of the ACS – Pittsburgh Section Professional Relations Committee

SSP April Meeting Technology Forum Bio Geoffrey H. Goldberg Continued from Page 7

BIOGRAPHY: Mr. Goldberg is a bridge engineer in the "City of Bridges," Pittsburgh, Pennsylvania. He has degrees in both Architectural History and Civil Engineering from the University of Massachusetts at Amherst. He works on bridge design projects in the states of Pennsylvania, Ohio, West Virginia and Florida, and recently projects in Peru and Mexico.

He has worked on the documentation and restoration of numerous historic bridges, most notably, the Wheeling Suspension Bridge, Wheeling, West Virginia. His collection of postcards of bridges is among the largest extant, and he made use of his collection to illustrate the book he was asked to write for Schiffer publishing – Bridges: a Postcard History.

In his spare time, he enjoys Japanese gardening and smoking fine cigars.

SACP - SSP presents: Continuing Education Joint Symposium

Biography: James G. Herman, MD



Dr. Herman received his Bachelor's degree with a major in Chemistry from Hope College in 1984, and his MD from the Johns Hopkins University School of Medicine in 1989. He completed his internship and residency in Internal Medicine at Duke University and a Medical Oncology fellowship at Johns Hopkins before joining the faculty in 1996. He was promoted to Professor in 2009 and has recently moved to the University of Pittsburgh to lead the lung cancer program at the University of Pittsburgh Medical Center. His laboratory mentees include 3 medical, 6 PhD thesis students, and 23 post-doctoral fellows. He is board certified in medical oncology and is clinically involved in the management of patients with lung and esophageal cancer.

Dr. Herman has recently been a member of TCGA (The Cancer Genome Atlas) involved in characterizing genome wide epigenetic changes in cancer. He has published over 270 research papers and 50 reviews or book chapters.

Get Connected!

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

Section's Website:

www.pittsburghacs.org

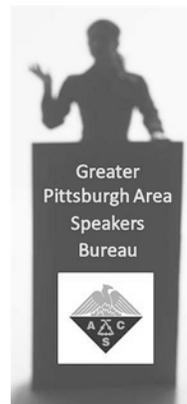
Facebook Page:

Pittsburgh Section of the American Chemical Society

Linked In:

Pittsburgh Section of the American Chemical Society

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)

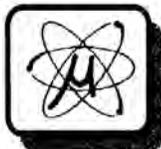
Any questions should be directed to Michelle Ward
(muscat@pitt.edu or 412-624-8064)

Business Directory

Services

Services

Services



Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE

SEM/EDXA • EPA/WDXA • XRD XRF • ESCA • AUGER • FTIR • DSC/TGA

Registered with FDA • DEA GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE. 19805 Voice 302-998-1184, Fax 302-998-1836
E-Mail micronanalytical@compuserve.com Web Page: www.micronanalytical.com

NMR Service 500MHz

*Mass

*Elemental Analysis

NuMega Resonance Labs

numegalabs.com P-858-793-6057



Robertson Microlit Laboratories

Where speed and accuracy are elemental

Elemental CHN, S, X, Analysis (same day service)

Metals by ICP-OES, ICP-MS, A/A

FTIR, UV/VIS Spectroscopy

Ion Chromatography

GC-MS

Polarimetry

DSC, TGA, melting point

KF Aquametry, Titrimetry

1705 U.S. Highway 46 • Suite 1D • Ledgewood, NJ 07852 • 973.966.6668 • F 973.966.0136

www.robertson-microlit.com • email: results@robertson-microlit.com

Rapid Results • Quality • Accuracy • Competitive Pricing

TELL OUR ADVERTISERS

Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

WANT MORE ARTICLES

When you tell our advertisers that you saw their ads here they have more confidence in our newsletter's viability as an advertising medium. They advertise more. This supports our many activities.



SOCIETY FOR
ANALYTICAL CHEMISTS
OF PITTSBURGH

Calling New Members

Dues Only \$5.00, Call Valarie Daugherty
412-825-3220 Ext. 204 **Right Now!**

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

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

Business Directory

Services

PITTSBURGH SECTION OFFICERS

Chair

Evonne Baldauff
51 W. College St.
Waynesburg University
Waynesburg, PA 15370
Office: 724-852-7627
Cell: 7654914425
ebaldauf@waynesburg.edu

Chair-Elect

Dave Waldeck
University of Pittsburgh
Room G-10
219 Parkman Avenue
Pittsburgh, PA 15260
412-624-8430
dave@pitt.edu

Secretary

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

Treasurer

Kelley Colopietro
2220 Eagles Nest Lane
Monroeville PA 15146
443-617-6792
kelley.colopietro@gmail.com

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 hljuzwa@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 May 2016 issue must be to the editor by April 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.

Design Editor: Traci Johnsen
124 Moffett Run Rd.
Aliquippa, PA 15001
Phone: 724-378-9334
tracjohnsen@comcast.net

Advertising Editor: Vince Gale
MBO Services
P.O. Box 1150
Marshfield, MA 02050
Phone: 781-837-0424
cust-svc@mbosevices.net

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

ADVERTISERS INDEX

Micron inc.	12
NuMega Resonance Labs	12
Robertson Microlit Laboratories	12
Society for Analytical Chemists of Pittsburgh	12
Spectroscopy Society of Pittsburgh	12

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

Monday, April 4

Society for Analytical Chemists of Pittsburgh - Former Chair Night

"Integration of Proteomics Data (CPTAC) with Genomics Data (TCGA) Produces a More Unified Snapshot of Tumor Biology"

Henry Rodriguez, MS, PhD, MBA, Director, Office of Cancer Clinical Proteomics Research, Office of the Director, National Cancer Institute, NIH

Duquesne University, Pittsburgh, PA

Saturday, April 9

SACP - SSP

Continuing Education Joint Symposium

"Epigenetics"

Old Town Buffet (formerly Tambellini/Misaki), 860 Saw Mill Run Blvd (Route 515), Pittsburgh, PA 15226

Tuesday, April 12

Pittsburgh Section ACS Energy Technology Group

"Clean Rivers Opportunities with Clean Fuels: Natural Gas MARAD Towboat Conversion Project Highlights"

Dr. Lutitia Clipper, CEO of Clipper Enterprises

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

Wednesday, April 27

The Spectroscopy Society of Pittsburgh

"The Glow on the Horizon: New Sources for Emission and MS"

Gary Hieftje, Indiana University

Duquesne University, Pittsburgh, PA

The Spectroscopy Society of Pittsburgh - Technology Forum

"Pittsburgh's Bridge Legacy"

Geoffrey H. Goldberg, SAI Consulting Engineers

Duquesne University, 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