



Pittsburgh Section

# The Crucible



<http://www.chem.cmu.edu/acs-pgh/>

Volume: XCV No. 7

March 2010

## Project SEED Donations Sought

By supporting Project SEED you are helping to encourage economically disadvantaged high school students to pursue career opportunities in science and technology.

Direction for this program is provided by the National American Chemical Society Committee on Project SEED. This program has been praised by participants and sponsors alike as a remarkable success, helping students discover their skills and abilities and to develop self-confidence, as they approach critical turning points in their lives.

The Pittsburgh-area program has hosted 29 students since its inception and has openings for six students this summer at Duquesne University. These students will have the opportunity to work in laboratories conducting cutting-edge research guided by scientist-mentors. Funding for this program is obtained through donations from individuals, companies, and professional organizations. Student stipends range from \$2,800 to \$3,300.

We have seen firsthand how the Project SEED experience can transform the lives of young people. Please consider making a donation to this effective program. Any amount of money you can give would be greatly appreciated. To learn more about Project SEED please call Tabitha Riggio, Project SEED Committee Chair, at 412-480-5143 or email [tabithariggio@comcast.net](mailto:tabithariggio@comcast.net). To donate, please send monies to Dr. Jennifer Aitken; Department of Chemistry and Biochemistry; Duquesne University; 600 Forbes Ave.; Mellon Hall 302; Pittsburgh, PA 15282. Thank you for your support!

## Idea Bucket - We Want to Hear From You!

We want to make sure that we are meeting the needs of our local section members. If you have an idea for an event, a service, a speaker, or anything, please feel free to pour your ideas into the idea bucket! To pour into the bucket, please contact Jim Manner at [manner1@comcast.net](mailto:manner1@comcast.net) or Heather Juzwa at [hljuzwa@shimadzu.com](mailto:hljuzwa@shimadzu.com)!



## 'Friend Us'

The ACS Local Pittsburgh Section now has its own Facebook and LinkedIn Pages. Be sure to join to stay current with section happenings!

**Facebook Page:**  
ACS Pittsburgh

**LinkedIn:**  
Pittsburgh Local Section ACS

## Contents . . .

Project SEED Donations Sought	1
Society for Analytical Chemists of Pittsburgh & Spectroscopy Society of Pittsburgh Continuing Education Symposium	2
ACS Energy Technology Group	4
Chemists Celebrate Earth Day 2010	5
Illustrated Poem Contest	
Pittsburgh Section ACS Younger Chemists Committee - March Meeting	5
ACS Pittsburgh Chemists Club	5
Society for Analytical Chemists of Pittsburgh April Meeting	6
Chemists Celebrate Earth Day	7
Illustrated Poem Contest Rules	
The 2010 Tripartite Symposium	7
Save the Date!	
Society for Analytical Chemists of Pittsburgh March Meeting	7
Spectroscopy Society of Pittsburgh April Meeting	8
Spectroscopy Society of Pittsburgh Technology Forum - April Meeting	8
Take the Mystery Out of the Job Search	8
Speak for Science	9
2010 ACS Leadership Institute	9
Advertiser's Index	11
Calendar	12

# Society for Analytical Chemists of Pittsburgh & Spectroscopy Society of Pittsburgh

***Jointly Present a Continuing Education Symposium:***



## “Studies of Alzheimer’s, Dementia, and Sports Related Effects of Concussions”



**Saturday March 27, 2010  
8:30 a.m. - 2:00 p.m.**

**Sewickley Academy  
315 Academy Ave., Sewickley, PA 15143**

### **PROGRAM**

8:30 Registration, Refreshments, & Welcome

9:00 Dr. Chet Mathis, UPMC, Development and Application of Agents to Image Amyloid Plaques in vivo

9:50 Dr. Tom Liu, UPMC, Medical Treatment for Concussions

10:35 Break

10:50 Dr. Oscar Lopez, UPMC, Perfusion and Structural MRI in Normal Aging and Dementia

11:40 Dr. Joseph Maroon, Pittsburgh Steelers Physician, Neurosurgeon, Healthy Living

1:00 Lunch and Discussion

**Open to the Public  
Registration Deadline: March 24, 2010**

Registration Fee: \$10 (\$5 for Student and Retiree) - Luncheon & Parking Included

Directions can be found at [www.sewickley.org](http://www.sewickley.org) ‘Contact Us’ Page

Please make check payable to SSP and mail the Registration Form below to:

Ms. Emily Concannon  
SSP – Continuing Education Symposium  
300 Penn Center Blvd., Suite 332  
Pittsburgh, PA 15235-5503

---

SACP/SSP Continuing Education Registration Form

Name: \_\_\_\_\_ Affiliation: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

*Secondary School Science Teachers: PA ACT 48 credits available upon request*

# 2010 Eastern Analytical Symposium



November 15 - 18, 2010  
Garden State Exhibit Center, Somerset, New Jersey

## CALL FOR PAPERS

Deadline – April 15, 2010

The Eastern Analytical Symposium and Exposition is the second largest conference and exposition for laboratory science in the U.S. dedicated to the needs of analytical chemists and those in the allied sciences. We offer high quality cutting-edge technical sessions and state-of-the-art short courses, workshops and seminars. We invite you to be a part of the program by contributing a paper for oral or poster consideration. Please note that all abstracts must be submitted electronically via the EAS web site at [www.EAS.org](http://www.EAS.org) under the **Symposium tab**. The abstract submission deadline is April 15.

To submit a contributed paper for the 2010 EAS Technical Program, please submit abstracts through our web site at [www.EAS.org/asubmit](http://www.EAS.org/asubmit) between March 1 and April 15, and follow the instructions for abstract submission. *Invited speakers must not submit abstracts to EAS until requested.*

Please carefully review the following information:

- All contributed abstracts must be submitted through our web site at [www.EAS.org](http://www.EAS.org) between March 1 and April 15, 2010. No faxed, e-mailed, or mailed abstracts will be accepted.
- **Please note that no one author may submit and present more than two posters.**
- All abstracts must be a **maximum of 250 words** or less.
- All abstracts will be acknowledged via e-mail.
- The title of the presentation and the list of authors that you submit are final, and may not be changed.
- The abstract that you submit will be considered to be your final abstract that will be printed in the abstract book for the 2010 Eastern Analytical Symposium.
- Presenting authors of contributed submissions will be notified in June 2010 of the status of the abstract and its session assignment.

### TOPICS AREAS

Bioanalysis  
Capillary Electrophoresis  
Chemometrics  
Chromatography  
Conservation Science  
Environmental Analysis  
Forensic Analysis  
Gas Chromatography  
HPLC  
Immunochemistry  
Industrial Hygiene  
Ion Chromatography  
IR Spectroscopy

Laboratory Automation  
Laboratory Management  
LC/MS  
Mass Spectrometry  
Microchemistry  
Microscopy  
Near Infrared (NIR) Spectroscopy  
NMR Spectroscopy  
Pharmaceutical Analysis  
Process Analytical Science  
Quality by Design  
Quality/Regulatory/Compliance  
Raman Spectroscopy

Sample Preparation  
Science Education  
Sensors  
Separation Sciences  
Size Exclusion Chromatography  
Solid State Analysis  
Space Analytics  
Supercritical Fluid Chromatography  
Surface Science  
Very High Pressure LC/Ultra High Pressure LC  
Vibrational Spectroscopy

### Contact information:

EAS Hotline  
EAS Faxline  
EAS E-mail

732-449-2280  
732-612-1123  
[askeas@EAS.ORG](mailto:askeas@EAS.ORG)

Eastern Analytical Symposium & Exposition, Inc.  
P.O. Box 185  
Spring Lake, NJ 07762

[www.EAS.org](http://www.EAS.org)

**ACS Energy Technology Group  
Pittsburgh Section**

**Wednesday, March 10, 2010**

**Cap & Trade Legislation: All Pain, No Gain**

**Bradley S. Tupi  
Tucker Arensberg, P.C.**

Spaghetti Warehouse, 26<sup>th</sup> & Smallman Streets  
Strip District, Pittsburgh PA  
Free parking behind the restaurant  
Social Hour 6:00 pm  
Dinner 6:30 pm  
Talk 7:30 pm.

Whether one accepts the notion of anthropogenic climate change or not, Cap & Trade legislation is a bad idea. First, it will not have a sufficient impact on global CO<sub>2</sub> emissions to accomplish its stated goal. Second, it will dramatically increase energy costs for American businesses and consumers. Third, it will accelerate the outsourcing of American jobs. The technologies offered as replacements for fossil fuels--wind and solar power--cannot do the heavy lifting required for US economic health.

**Bio:** Brad Tupi is an environmental lawyer with Tucker Arensberg, P.C., one of Pittsburgh's 10 largest law firms. Tucker Arensberg provides counsel to financial institutions, large and small businesses, utilities, and individuals. In the energy field, Tucker Arensberg assists independent coal, oil and gas operators and production companies in the sale and acquisition of assets, in securing title to property, and in preparing drilling and operating agreements, joint venture agreements, purchase and sale contracts, and gas transportation and gathering agreements. The firm also has extensive experience in the financing of oil, gas and coal operations and the restructuring of troubled credits for these industries.

Brad Tupi holds Bachelor of Arts and Juris Doctor degrees from Columbia University. For energy businesses, Brad has handled Environmental Hearing Board appeals concerning DEP drilling permits; environmental due diligence in connection with loans to coal operators; and environmental cleanup litigation. In one case, Brad obtained a \$1.2 million award on behalf of an electric utility against a coal supplier for breach of a low-sulfur coal supply contract. Brad has offered talks and published papers on Superfund, the Toxic Substances Control Act, environmental risks and liabilities, and on the global warming controversy.

***For reservations, please call Al Mann by Tuesday, March 9, 2010 at 412-661-5947 or by email at [alfred.mann@verizon.net](mailto:alfred.mann@verizon.net)***

The cost of the dinner is \$16 including tax and gratuity.

Please specify your preference from the following menu choices:

- Spaghetti with meatballs
- 15-layer lasagna
- Four-cheese manicotti
- Fettuccini Alfredo
- Grilled chicken Caesar salad

Also indicate special needs such as vegetarian, gluten-free, etc.

## Chemists Celebrate Earth Day 2010: "Plants - The Green Machines!" Illustrated Poem Contest

As part of their Chemists Celebrate Earth Day celebration, the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in grades Kindergarten-12.

Write and illustrate a poem using the Chemists Celebrate Earth Day theme, "Plants - The Green Machines!" Your poem can be in any style as long as it is no more than 40 words. Some examples are:



Haiku  
Limerick  
Ode  
ABC poem  
Free Verse  
End Rhyme  
Blank Verse  
Sonnet



### Possible topics related to plants and chemistry include:

Environmental Chemistry - plants helping to keep air clean.  
Food Chemistry - plants as a source of food.  
Biochemistry - plants being used as an alternate fuel source.  
General Plant Function - photosynthesis and respiration.

### Winners will be selected in each of the following categories:

- K - 2<sup>nd</sup> grade
- 3<sup>rd</sup> - 5<sup>th</sup> grade
- 6<sup>th</sup> - 8<sup>th</sup> grade
- 9<sup>th</sup> - 12<sup>th</sup> grade

### Prizes:

1<sup>st</sup> Place in each grade category - \$50

1<sup>st</sup> Place winners will be submitted for the national ACS's illustrated poem contest

**Contest Rules:** See Page 7 of the March Crucible

For more information about the CCED 2010 contest, contact  
Michael Mautino at 412-777-4792 or  
michael.mautino@bayerbms.com (e-mail preferred)

### Pittsburgh Section ACS Younger Chemists Committee

### Which Career Path do I Choose with My Skills?

Tuesday,  
March 30, 2010  
6:00 - 7:30 p.m.

Peter's Pub  
116 Oakland Avenue  
Pittsburgh, PA 15213

**Who Should Attend?**  
Chemists and Aspiring  
Chemists 35 and under  
and their guests

Listen to three unique speakers from academia, government, and industry discuss their skills, and how they came to land their position. Learn the pros and cons of each sector and network with all your peers! Feel free to stay for drinks after the talks!

### ACS Pittsburgh Chemists Club

Pittsburgh Section, American  
Chemical Society

The ACS Pittsburgh Chemists Club  
will not meet in March



# Society for Analytical Chemists of Pittsburgh



## April Meeting

Monday, April 1, 2010

8:00 PM

Duquesne University

Laura Falk Hall

## “The Chemical Heritage Foundation: Discover the Exciting Untold Story of Chemistry”

Rich Sherman

Director of Institutional Advancement

Chemical Heritage Foundation

**Abstract:** The Chemical Heritage Foundation (CHF) was established in 1982, in rented space on the campus of the University of Pennsylvania. Today, CHF is a vibrant and important educational institution, located in the heart of the historic district in Philadelphia, with an endowment in excess of \$120 million, a staff of 60, and with an operating budget of \$11 million. It is the jewel box of the chemical community -- with vast collections of art, artifacts, archives, instruments, rare books, and other published materials. It is the premier independent center for the study of the history of the chemical sciences, attracting scholars from around the world. In addition, CHF has a very active educational outreach program, a dynamic website attracting over 1 million visitors per year, and operates the Center for Contemporary History and Policy, which examines contemporary issues impacting the chemical and molecular sciences. In fall 2008, CHF opened its new museum, which includes both permanent and rotating exhibit galleries, which is attracting local, national and international visitors. Rick will provide an overview of the Foundation, and review some plans for the future.

**Biography:** Rick Sherman received the B.S. degree in Paper Science and Engineering from the State University of New York College of Environmental Science and Forestry (1981), and the M.S. degree in Finance from Drexel University (2002). He spent 20 years in the paper industry, with Boise Cascade, Champion International, and Mead Corporation, and worked in various capacities in engineering, manufacturing, product management, marketing, and strategic planning. Rick joined the Chemical Heritage Foundation in 2004 as Director of Institutional Advancement, where he is responsible for, among other things, fundraising, events, affiliate relations, and CHF's awards program.

**Dinner Reservations:** Please email Julie Theys, Arrangements Co-Chair at [theysj@pittcon.org](mailto:theysj@pittcon.org), by Thursday, March 28, 2010 to make your dinner reservation. Should you not have email, please call Julie at 814-563-7236. Dinner will cost \$8 (\$4 for students) and checks can be made out to the SACPE. If you have any dietary restrictions, let Julie know when you leave a message.

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

## Chemists Celebrate Earth Day Illustrated Poem Contest Rules

ACS Local Sections are encouraged to participate in the Chemists Celebrate Earth Day (CCED) illustrated poem contest by inviting area Kindergarten - 12<sup>th</sup> grade students to compete.

### 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 theme, "Plants - The Green Machines!" and should reflect some aspect of plant science from the possible topics listed.
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined 8.5" x 11" sheet of paper (of any type). 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 have the following information included with the entry: student's name, grade, home telephone number and/or e-mail address, school name, school address, teacher's name, teacher's email, school telephone number, and style of the poem below the title. For school districts with "privacy" policies regarding the sharing of student's home contact information, please use school address and telephone number for the student's contact information. For home schooled students, write "Home Schooled" for school name, and note any home school association you may be affiliated with.
- 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.
- ACS is not responsible for lost, damaged, or delayed postal shipments.
- Contest entries must be received at the address listed below by Thursday, April 1, 2010.
- NO LATE ENTRIES WILL BE ACCPETED.
- Judging will take place Friday, April 2, 2010.
- Winning entries will be announced Monday, April 5, 2010.

Entries will be judged based upon:

- Relevance to and incorporation of "Plants - The Green Machines!" theme
- Word choice and imagery
- Colorful artwork
- Adherence to poem style
- Originality and creativity
- Overall presentation

Please send entries by Thursady, April 1, 2010 to:  
Michael Mautino  
3485 Frye Ave.  
Finleyville, PA 15332

<http://www.chem.cmu.edu/acs-pgh/>



## The 2010 Tripartite Symposium

**Save the Date  
May 10, 2010**

This year's Tripartite Symposium will be on Monday, May 10<sup>th</sup> at Duquesne University!

**"From the Crime Scene to the Lab: Furthering Forensic Science"** will feature talks on fire debris analysis, chemistry in forensics, and a keynote lecture by Dr. Cyril Wecht where he will highlight several famous cases! The symposium is open to the public, so please invite your friends and colleagues!



## Society for Analytical Chemists of Pittsburgh

### March Meeting

**There will not be a  
SACP March Meeting  
due to  
Pittcon® 2010 Conference  
and Exposition**

**Pittcon 2010  
will be held in  
Orlando, FL  
February 28 - March 5, 2010**



## SPECTROSCOPY SOCIETY OF PITTSBURGH



April Meeting - April 21, 2010

Duquesne University, Mellon Hall of Science  
(Laura Falk Hall)

*“Energy, Spectroscopy and Photosynthesis ”*

Graham R. Fleming

Vice Chancellor for Research University of California Berkeley

6:00 PM - Social Hour; 6:30 PM - Dinner, City View Cafe  
8:15 PM - Technical Program

The United States' current energy consumption is about 3.3 TW (100 EJ/year) while the total solar power incident on the U.S. is 1500 TW (48,000 EJ/year). Clearly, conversion of sunlight to other energy sources can provide for much of the nation's energy needs provided that the energy of sunlight can be converted into a storable form. Of course, this is what plants and photosynthetic algae do. Synthetic solar power converters, such as photovoltaic devices, are also in use, although long-term storage of electricity remains an unsolved problem. In this talk, I aim to highlight ways in which spectroscopy can be used to provide the knowledge base to find ways to increase the efficiency of harnessing solar power of both natural and synthetic systems.

### Bio

Graham Fleming currently serves as UC Berkeley's Vice Chancellor for Research, a position which he assumed in April 2009. Fleming served as Berkeley Lab's Deputy Director from 2005 through 2007, and has been at the forefront of a major revolution in the biophysical sciences. Through joint appointments as Melvin Calvin Distinguished Professor of Chemistry at UC Berkeley, and Founding Director of both the Berkeley Lab's Physical Biosciences Division and UC Berkeley's California Institute for Quantitative Biosciences (QB3), he has re-shaped the intersection of physical and biological sciences, while maintaining his own ground-breaking investigations into ultrafast chemical and biological processes, in particular, the primary steps of photosynthesis. Throughout his administrative career, Fleming has remained a highly active and successful scientific researcher. He has authored or co-authored more than 400 publications, and is widely considered to be one of the world's foremost authorities on ultrafast processes. In addition to his many other activities, Fleming has given numerous talks around the world on the inter-relation and inter-complexity of energy, climate and photosynthesis.

Please email Carolyn Benga at [crbssp@yahoo.com](mailto:crbssp@yahoo.com) or call (412) 487-0915 to make dinner reservations NO LATER THAN FRIDAY, April 16, 2010. This month's dinner is a "Welcome to Spring." The entrée will be Sautéed Medallions of Pork with Cider Bourbon Sauce served with Dauphinoise Potatoes and Fresh Seasonal Vegetables. Baby spinach Salad with Raspberry Vinaigrette will begin the meal and Black forest Cake will be served for dessert along with Fortune Cookies. Dinner will cost \$8 and checks can be made out to the SSP. If you have dietary restrictions, please let Carolyn know 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 dinner or meeting. If any difficulties arise, contact Dr. Mitch Johnson at Duquesne University.

Spectroscopy Society of  
Pittsburgh

*Technology forum*

Wednesday  
April 21, 2010

Duquesne University  
Mellon Hall of Science  
(Laura Falk Hall)  
5:30 p.m.

**“Community Based  
Food Systems”**

Gregory Boulos  
Slow Food USA  
Mid-Atlantic Region

**Take the Mystery  
Out of the Job  
Search: Get Support  
from the ACS Career  
Experts!**

ACS Careers Job Club Webinar Forums features moderators Lisa Balbes, Ph.D., and James Burke, Ph.D., ACS Career Consultants with a combined 40 years of experience in assisting hundreds of job seekers in the chemical industry. The launch is Tuesday, March 9, 2010, with a 20-minute topic presentation followed by a Q&A session. Subsequent forums will be held the second Tuesday of every month from 1 to 2 pm ET. Please visit [www.acs.org/careers](http://www.acs.org/careers) to register for this free service!

*ACS Cut and Paste  
January/February 21010*

## Speak for Science

Less than 10% of the 535 members of Congress have backgrounds in science and engineering. Yet every day, legislators are asked to make important decisions that affect our nation's scientific enterprise. You and your committee members can help them make informed decisions by joining the ACS Legislative Action Network (LAN).

The LAN is a Web-based political involvement program that gives you an easy, effective way to voice opinions on legislation effecting federal research to K-12 science education.

As you may know, for decades ACS has been a respected source of information and advocacy on Capitol Hill. Often this input is provided in formal testimony before committees and panels making decisions on spending and legislation relating to science and engineering.

But just as important, members of Congress listen to their constituents and value their timely input. That's where you and your committee members can play a valuable role as members of the LAN.

Prior to key congressional decisions, ACS staff sends e-mail alerts to LAN members with background information, the analysis of the potential effect an issue would have on the scientific enterprise, and ACS's position. By clicking on a Web link, participants can go directly to the ACS Legislative Action Center, where they are given background information on the topic and a proposed message that can be easily personalized and sent directly to legislators-the entire process takes only a few minutes.

It's free, simple, and done entirely via the Web. But more to the point, by participating in the LAN, chemists can impact federal policies critical to chemistry and our nation. Please register online at [www.act4chemistry.org/register.cfm](http://www.act4chemistry.org/register.cfm).

If you would like more information on the Legislative Action Network, please contact the ACS Office of Public Affairs at 1-800-227-5558, ext. 4386, or [b\\_smith@acs.org](mailto:b_smith@acs.org). Participate and become your legislators' "face of science."

*ACS Cut and Paste  
January/February 21010*

## 2010 ACS Leadership Institute

63 new connections  
+ 52 pages of notes  
+ 2 informative courses

-----  
1 excited Chair-Elect

Heather Juzwa had the privilege of attending the 2010 ACS Leadership Institute from January 22-24 in Ft. Worth, TX. This intensive weekend was a crossroads for nationwide leaders and future leaders to network and brainstorm for ways to help their local section members achieve their professional goals and best utilize their ACS memberships! Brace for an exciting 2011 - the International Year of Chemistry!

The ACS Pittsburgh local section extends special congratulations to Dr. Kimberly Woznack, Associate Professor at California University of Pennsylvania and Dr. Alexandra Hakala, Post-Doctoral Fellow at the National Energy Technology Laboratory. These two exceptional chemists were awarded the Leadership Development Award. The award covered their travel and courses at the Leadership Institute. Congratulations to these future leaders!

### A good vacuum system

### needs a great vacuum trap:

### Posi-Trap positive flow vacuum inlet traps!

- No "blow-by". . . **ever!**
- Filter elements matched to **your** application.
- **Easy** cleaning and changing.

**When you want the best, you want MV Products.**



**PRODUCTS**

*A Division of Mass-Vac, Inc.*

247 Rangeway Road ■ PO Box 359 ■ North Billerica, MA 01862  
978 667 2393 Fax 978 671 0014 [sales@massvac.com](mailto:sales@massvac.com) [www.massvac.com](http://www.massvac.com)

### BOOST OUR RATINGS

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.

# 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](mailto:micronanalytical@compuserve.com)

Web Page: [www.micronanalytical.com](http://www.micronanalytical.com)

### 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.

Specialized Analytical Testing

### INDSPEC Chemical Corporation

- Chromatography
- Absorption Spectroscopy
- Chemical Analysis
- Physical Measurement
- Thermal Analysis

For further information, please contact the Manager  
Analytical Testing Services Harmarville Technical Center  
412-826-3666, E: [Barbara\\_Buchner@oxy.com](mailto:Barbara_Buchner@oxy.com)

### 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.

## NMR<sub>Service</sub> 500MHz

### \*Mass

### \*Elemental Analysis

## NuMega Resonance Labs

[numegalabs.com](http://numegalabs.com) P-858-793-6057

### Spectroscopy Society of Pittsburgh

- Professional Networking within the Spectroscopy Community
- Monthly Symposia by Prominent Researchers
- Promoting Science Education



To join call Emily: 412-825-3220 ext 212



SOCIETY FOR  
ANALYTICAL CHEMISTS  
OF PITTSBURGH

### Calling New Members

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



## 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

Bioavailability  
Polarimetry  
DSC, melting point  
KF Aquametry, Titrimetry

P.O. Box 927 • 29 Samson Ave. • Madison, NJ 07940 • 973.966.6668 • F 973.966.0136  
[www.robertson-microlit.com](http://www.robertson-microlit.com) • email: [results@robertson-microlit.com](mailto:results@robertson-microlit.com)

**Rapid Results • Quality • Accuracy • Competitive Pricing**

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

Section's Website:  
[http://  
www.chem.cmu.edu/acs-pgh/](http://www.chem.cmu.edu/acs-pgh/)

Facebook Page:  
ACS Pittsburgh

Linked In:  
Pittsburgh Local Section ACS

# Business Directory

## Services

### PITTSBURGH SECTION OFFICERS

#### **Chair:**

James Manner  
PPG Industries-Retired  
125 Oak Pointe Dr  
Monroeville, Pa. 15146  
412-372-6390  
manner1@comcast.net

#### **Chair-Elect**

Heather Juzwa  
321 Winners Circle  
Canonsburg, PA 15317  
724-745-2662  
hljuzwa@shimadzu.com

#### **Secretary**

Robert Mathers  
Penn State University  
3550 Seventh Street  
New Kensington, PA 15068  
724-334-6741  
rtm11@psu.edu

#### **Treasurer**

Simion Coca  
PPG Industries Inc.  
Research Center  
4325 Rosanna Drive  
Allison Park, PA 15101  
412-492-5558  
coca@ppg.com

## Services

### **Volunteers Needed!**

There are a number of volunteer opportunities in the Pittsburgh ACS section! If you are interested in volunteering, please contact Jim Manner at [manner1@comcast.net](mailto:manner1@comcast.net)!

### **Crucible Deadline**

The deadline for items submitted to *The Crucible* is the 1<sup>st</sup> of the month prior to publication.

For example, all items for the April 2010 issue must be to the editor by March 1, 2010.

### **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.

**Editor: Traci Johnsen**  
124 Moffett Run Rd.  
Aliquippa, PA 15001  
Phone: 724-378-9334  
[tracijohnsen@comcast.net](mailto:tracijohnsen@comcast.net)

**Advertising Editor: Vince Gale**  
MBO Services  
P.O. Box 1150  
Marshfield, MA 02050  
Phone: 781-837-0424  
[cust-svc@mbo-services.net](mailto:cust-svc@mbo-services.net)

## Career Opportunities

### **PROMOTE YOUR PRODUCTS AND SERVICES • ADVERTISE IN THE CRUCIBLE**

*The Crucible* readership is greater Pittsburgh's largest source for chemical and biochemical buyers. *The Crucible* reaches more than 3,000 readers each month. It has been estimated that these buyers annually purchase more than \$150,000,000 of:

- EQUIPMENT
- SUPPLIES
- CONSULTING SERVICES

Placing an advertisement in *The Crucible* is the lowest cost method of reaching this select audience.

**For further information and other options for promoting your company's products and services visit:**

**[www.mboservices.net](http://www.mboservices.net)**

## ADVERTISERS INDEX

Eastern Analytical Symposium	3
INDSPEC Chemical Corporation	10
MASS VAC, Inc.	9
Micron inc.	10
NuMega Resonance Labs	10
Robertson Microlit Laboratories	10
Society for Analytical Chemists of Pittsburgh	10
Spectroscopy Society of Pittsburgh	10

# The Crucible

A newsletter of the Pittsburgh Section of the American Chemical Society  
124 Moffett Run Rd.  
Aliquippa, PA 15001

NON-PROFIT ORG.  
U. S. POSTAGE  
PAID  
PITTSBURGH, PA  
Permit No. 196

## 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

### Wednesday, March 10

#### ACS Pittsburgh Energy Technology Group

##### *“Cap & Trade Legislation: All Pain, No Gain”*

Bradley S. Tupi, Tucker Arensberg, P.C.  
Spaghetti Warehouse, 26<sup>th</sup> and Smallman Streets, Pittsburgh

### Saturday, March 27

#### Society for Analytical Chemists of Pittsburgh & Spectroscopy Society of Pittsburgh

##### *Continuing Education Symposium - “Studies of Alzheimer’s, Dementia, and Sports Related Effects of Concussions”*

Sewickley Academy, 315 Academy Ave., Sewickley, PA

### Tuesday, March 30

#### Pittsburgh Section ACS, Younger Chemists Committee

##### *“Which Career Path Do I Choose With My Skills?”*

Peter’s Pub, 116 Oakland Ave., Pittsburgh, PA

### Monday, April 1

#### Society for Analytical Chemists of Pittsburgh

##### *“The Chemical Heritage Foundation: Discover the Exciting Untold Story of Chemistry”*

Rich Sherman, Director of Institutional Advancement, Chemical Heritage Foundation  
Duquesne University, Laura Falk Hall

### Wednesday, April 21

#### Spectroscopy Society of Pittsburgh

##### *“Energy, Spectroscopy and Photosynthesis”*

Graham R. Fleming, Vice Chancellor for Research University of California Berkeley  
Duquesne University, Mellon Hall of Science (Laura Falk Hall)

#### Spectroscopy Society of Pittsburgh Technology Forum

##### *“Community Based Food Systems ”*

Gregory Boulos, Slow Food USA, Mid-Atlantic Region  
Duquesne University, Mellon Hall of Science (Laura Falk Hall)

*Additional chemistry related seminars and events in the Pittsburgh area can be found on the Pittsburgh Section’s website at <http://www.chem.cmu.edu/acs-pgh/>*