Pittsburgh Section

The Crucible

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

Volume: XCV No. 8 April 2010

Call for Nominations

The Pittsburgh Award

The Pittsburgh Award was established in 1932 by the Pittsburgh Section of ACS to recognize outstanding leadership in chemical affairs in the local and larger professional community. This Award symbolizes the honor and appreciation accorded to those who have rendered distinguished service to the field of chemistry.

The Award consists of a plaque presented annually at a Section dinner. Members of the Pittsburgh Section, or in exceptional cases, non-members, who have done work worthy of recognition toward increasing chemical knowledge, promoting the chemical industry, benefiting humanity, or advancing the Pittsburgh Section, are eligible for consideration.

Nominations for the Pittsburgh Award are solicited from the membership of the Pittsburgh Section. The form can be found on the section's website, http://www.chem.cmu.edu/acs-pgh. Click on the awards link at the top of the page. Please send all nominations to Pittsburgh Section Chair-Elect, Heather Juzwa, hljuzwa@shimadzu.com by May 15, 2010.

For more information about the nomination process, contact Heather at 724-745-2662.

Distinguished Service Award

The Distinguished Service Award was established in 2007 by the Pittsburgh Section of the ACS to expand and replace the predecessor Chairman's Award of the Section. Both recognize outstanding volunteer service to the Section. The Award, consisting of a plaque, is presented annually at a Section dinner which is open to the public.

Members of the Pittsburgh Section, past or present, who have provided outstanding service in advancing the Pittsburgh Section are eligible for consideration. Nominations for the Distinguished Service Award are solicited from the membership of the Pittsburgh Section. Nomination information can be found at the section's website at http://www.chem.cmu.edu/acs-pgh. Please click on awards for more information. Nominations are due by May 15, 2010. Please send nominations to Pittsburgh Section Chair. Jim Manner, at manner1@comcast.net. For more information, please contact Jim at 412-372-6390.

Current and Past Issues of The Crucible are available online at the Pittsburgh Section's Website www.chem.cmu.edu/acs-pgh/

Contents . . .

Call for Nominations 1
The Pittsburgh Award
Distinguished Service Award
The 2010 Tripartite Symposium 2
Job Searching for Chemical Professionals 3
Society for Analytical Chemists of Pittsburgh & Spectroscopy Society of Pittsburgh Continuing Education Symposium 4
ACS Energy Technology Group 5
Society for Analytical Chemists of Pittsburgh April Meeting 6
Your Travel Budget's Cut, But You Still Need Training? 7
ACS Pittsburgh Chemists Club 7
Spectroscopy Society of Pittsburgh April Meeting 8
ACS Directory of Graduate Research 2009 8
Spectroscopy Society of Pittsburgh Technology Forum - April Meeting 9
President Obama Announces National Lab Day 9
Advertiser's Index 11
Calendar 12

The 2010 Tripartite Symposium

"FROM THE CRIME SCENE TO THE LAB: FURTHERING FORENSIC SCIENCE"

Monday, May 10, 2010, 12:15 pm - 6:00 pm
Duquesne University
Duquesne Room, Student Union, 600 Forbes Avenue, Pittsburgh, PA 15282

Sponsored by
Society for Analytical Chemists of Pittsburgh -- www.sacp.org
Spectroscopy Society of Pittsburgh -- www.ssp-pgh.org
American Chemical Society, Pittsburgh Section -- www.chem.cmu.edu/acs-pgh/

12:15-1:15	**Registration**
1:15	**Introduction**
1:20	**Doug Rohde, Lake County Crime Lab, Application of Chemistry in Forensic Investigation**
2:10	**Graham Rankin, Marshall University, Individualization of Ignitable Liquid Residues in Fire Debris**
3:00	**Intermission**
3:20	**Allison Murtha, RJ Lee Group, Gun Shot Residue Analysis**
4:10	**Cyril Wecht, Forensic Pathologist, From Autopsy to Courtroom - Famous Cases Highlighted**
5:00	**Reception**

OPEN TO THE PUBLIC

Please register by May 1, 2010

Registration Fee: $15 ($5 for Student and Retiree) - Reception & Parking* Included
(*Duquesne University Parking Garage – enter from Forbes Avenue only)
Please make check payable to SACP and mail the Registration Form below to:
Valarie Daugherty
SACP - Tripartite Symposium
300 Penn Center Blvd, Suite 332
Pittsburgh, PA 15235

Name: _____ Affiliation: _____

Mailing Address: _____

Email: _____ Phone: _____

JOB SEARCHING FOR CHEMICAL PROFESSIONALS

Presented by

The Society for Analytical Chemists of Pittsburgh
The American Institute of Chemical Engineers, Pittsburgh Section
The American Chemical Society, Pittsburgh Section
The Spectroscopy Society of Pittsburgh

Saturday, April 10, 2010

ROOM A221/A224, LANGLEY HALL, UNIVERSITY OF PITTSBURGH
4249 Fifth Avenue (entrance on Tennyson Avenue near Bigelow Boulevard)

Lunch Provided - Parking Available at Soldiers and Sailors Parking Garage
Pre-Registration Required

PROGRAM

8:30 A.M.	Registration
9:00 A.M.	Welcome and Introduction
9:30 A.M.	MANAGING AN EFFECTIVE JOB SEARCH Daniel J. Eustace, Ph.D. Career Consultant, American Chemical Society
12:10 P.M.	OVERVIEW OF THE LOCAL JOB MARKET Joseph D. Jolson, Ph. D. Career Consultant, American Chemical Society
12:30 P.M.	Networking Lunch
1:00 P.M.	Resume Review, Personal Consultation, and Job Fair
4:00 P.M.	Close

Bring your parking ticket for validation and your resume to participate in the afternoon program
(Undergraduates without a resume may participate in the afternoon group resume review)

Pre-Registration

Job Searching for Chemical Professionals Workshop
Send an email to Professor Toby Chapman
at:
tchapman@pitt.edu

Your pre-registration must be received by Monday, April 5, 2010 and include your full name and complete contact information including address, phone number, email address and whether or not you expect to participate in the resume review. Academic registrants - please include university affiliation and university department. Let us know when you expect to complete your B.S., M.S., Ph.D., post-doc, or other assignment.

Society for Analytical Chemists of Pittsburgh & Spectroscopy Society of Pittsburgh

Jointly Present a Continuing Education Symposium:

"Astronomical View of Space: The Moon and Beyond Via Telescopes From Earth and Space (Hubble)"

Saturday, April 17, 2010
8:30 a.m. - 2:00 p.m.

Rivers Casino - Andrew's Steakhouse
777 Casino Dr., Pittsburgh, PA 15212

PROGRAM

8:30	Registration, Refreshments, & Welcome
9:00	Dr. Regina Schulte-Ladbeck, University of Pittsburgh, Hubble Perspective
9:50	Dr. Felix J.Lockman, 50 years of Discovery at the National Radio Astronomy Observatory at Green Bank
10:35	Break
10:50	Dr. Steve Trigwell, NASA Glenn Research Center, In-situ Resource Utilization for the Moon, Mars and Beyond
11:45	TBD
1:00	Lunch and Discussion

Open to the Public
Registration Deadline: April 9, 2010

Registration Fee: $10 ($5 for Student and Retiree) - Luncheon & Parking* Included
*Parking at Rivers Casino Parking Lot
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: _____

ACS Energy Technology Group
Pittsburgh Section

Wednesday, April 14, 2010
(Rescheduled from February 2010)

"Carbon Capture and Sequestration: Progress, Challenges, and Opportunities"

Dan Connell
CONSOL Energy Inc., R&D

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

It is likely that some form of climate change legislation or regulation will soon be enacted in the United States. This would have major implications for coal-fired power plants, which account for about a third of the nation's total CO_2 emissions. Nevertheless, coal currently produces about half of the electricity in the U.S., and the country will likely continue to depend on this low-cost, domestic fuel as an important part of its generation mix. Moreover, climate change is a global issue, and developing countries such as China and India will continue to rely on coal to meet their rapidly growing energy needs. As a result, CO_2 capture and sequestration (CCS) from coal-fired power plants has emerged as an essential technology for achieving the levels of greenhouse gas emission reductions being contemplated in the U.S. and worldwide. This presentation provides a comprehensive overview of the status of CCS technologies. It is technically feasible to capture and sequester CO2 from power plants using commercial or near-commercial technologies; however, significant progress is still needed to scale up these technologies and reduce their cost and energy requirements. Uncertainties regarding social acceptance and permitting of CCS projects and long-term liability for the sequestered CO_2 must also be resolved. The areas of greatest need, and the work being done to address them, will be highlighted.

Dan Connell is an engineer with CONSOL Energy Inc., which is the largest producer of high-Btu bituminous coal in the United States and a major producer of coalbed methane gas. CONSOL's Research & Development department, located in South Park, PA, has provided energy and environmental research and technical services for over 60 years and is actively engaged in developing CCS technologies for coal-fired power plants. Since joining CONSOL in 2003, Dan's work has focused on the environmental implications of fossil fuel utilization. He leads CONSOL's research on CO2 capture technologies, multi-pollutant control, and ambient air quality. Dan holds a B.S. in chemical engineering from the University of Notre Dame, and is the author of numerous papers on air pollution and emissions control.

For reservations, please call Al Mann by Tuesday, April 13, 2010 at 412-661-5947 or by email at alfred.mann@verizon.net. Energy Technology Group meetings are open to all.

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 lasagne
- Four-cheese manicotti
- Fettuccini Alfredo
- Grilled chicken Caesar salad

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

Society for Analytical Chemists of Pittsburgh

April Meeting

Monday, April 5, 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, 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 SACP. 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.

Your Travel Budget's Cut, But You Still Need Training? Try an ACS Webcast!

Few companies are immune from the economic hardships in the headlines, and many budgets have been trimmed. But it is still crucial to your career to engage in continuing education to expand your skills and stay abreast of new topics.

Join the ACS Webcast mailing list at www.proed.acs.org/emailme to be the first to hear about the 2010 schedule, try out new courses for free, and receive discounts not available to the general public! Save your time and money and take a look at the courses available online through ACS.

ACS Webcast Short Courses provide the same quality training that ACS has long been known for. However, the courses are presented over the Internet, so they offer added convenience and flexibility.

•Economical. Most ACS Webcasts cost less than $100 an hour, which is far less than most technical training.

•Easy. Our technology is easy to use and works with all typical computer systems, so virtually anyone can easily view a webcast from the comfort of their home, office, or lab.

•Convenient. Class attendance is NOT required. If you miss a class, simply use your on-demand access to the session recording so you can catch up on your own time.

•Informative. All class materials are available for download, and you can email the instructor anytime.

There are expanded course offerings in analytical, organic, pharmacology, engineering, instrumentation, and other areas. For the full list of Webcast Short Courses and more information on available discounts, visit www.proed.acs.org.

ACS Cut and Paste
January/February 2010

ACS Pittsburgh Chemists Club

Pittsburgh Section, American Chemical Society

April Meeting
April 27, 2010

Spaghetti Warehouse
2601 Smallman St.

Social Hour: 6:00 PM
Dinner: 6:40 PM
Program: 7:50 PM

"Lymph Nodes as a Source of Other Tissues"

Eric Lagasse,
Pharm.D., PhD.
Associate Professor
Department of Pathology
Director of the Cancer Stem Cell Center
McGowan Institute for Regenerative Medicine
University of Pittsburgh

Abstract: Professor Lagasse will discuss lymph nodes as the source of liver cells, pancreatic cells and other vital tissues.

For Reservations, please call Ed Martin by noon Friday, April 23,2010 at (724) 335 - 0904 or by e-mail at edwardmartin1046@verizon.net

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 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.

ACS Directory of Graduate Research 2009

The ACS Directory of Graduate Research (DGR) 2009 and DGRweb, the searchable online version of the DGR, are now available. For the first time, research institutions in Mexico are included in the DGR. The Directory facilitates research collaborations and enables networking across chemical subdisciplines, providing the most comprehensive information on graduate research and researchers at universities across North America.

The 2009 print edition of the DGR provides information on

- 675 academic departments,
- 9,981 faculty members, and
- 64,331 publication citations.

DGRweb features include

- search capability for both faculty and areas of research;
- improved faculty search using multiple keywords for specific research interests;
- regional search features for faculty and institutions;
- "Print PDF" feature, which allows users to print individual department listings formatted as in the hardcover DGR; and
- access to the complete databases from 1999 through 2009.

As in the previous edition, DGRweb continues to be available free of charge at www.acs.org/dgrweb.
Copies of the print edition may be ordered by calling 1-800-227-5558 or by going online at www.acs.org/dgrweb.

ACS Cut and Paste
January/February 2010

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

When considering our food, we typically don't think about much at all. Grocery store aisles beckon us with a myriad of colorful cardboard opportunities - but in reality the further our diet gets from the field, the more unhealthy our bodies, our land and our environment become. This talk is about rebuilding the ecology of our community food systems. Taking the perspective that by producing our own food within our communities, we increase our intake of fresh healthy produce, experience more of the great outdoors and reconnect with our heritage. I'm hoping to make the point that it also builds stronger community 'tribal' bonds and helps us as a society to build more resilient connections within our own neighborhoods.

While I am not a soil or plant scientist, I would like to take the opportunity to talk with the audience about the potential for Spectroscopic research in an agricultural ecosystem to enhance regenerative production practices and nutrient density of the food crops. Thank you again for the opportunity to share my story.

Bio

Greg Boulos is involved in many sustainable initiatives from food to fuel to energy efficiency. Formerly the Western Regional Director for PASA, Greg is currently Mid Atlantic Regional Governor for Slow Food USA, CEO of Homesteaders Consulting LLC, co-owner of Blackberry Meadows Farm, co-founder of Transition Pittsburgh, Pittsburgh's Coalition for Food Abundance and Yinzers. His network includes professionals in regenerative design, agriculture, green energy, distributed manufacturing, eco-preneuring and community building. With a Masters in Sustainable Systems and certificate from Leadership Pittsburgh, Greg advances sustainability as a Board member of the Rotary Club of Pittsburgh, and the Greater Pittsburgh Community Food Bank.

President Obama Announces National Lab Day

On November 23, President Barack Obama announced the establishment of National Lab Day, an effort supported by ACS and 190 other organizations representing more than 6.5 million science, technology, engineering, and math (STEM) professionals.

The first National Lab Day is tentatively set for early May 2010 and will be part of a large, ongoing STEM initiative called "Educate to Innovate." ACS and other organizers hope National Lab Day will help stimulate more hands-on science learning by fostering enduring collaborations between individual STEM professionals, teachers, and students. ACS Chemistry Ambassadors are already making these connections. To join the effort or learn more, visit www.acs.org/chemsitryambassadors and www.nationallabday.org.

ACS Cut and Paste
January/February 2010

'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

SURPRISE

our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way you could also give credit to our advertisers who financially support us.

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

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

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 Service 500 MHz

*Mass
*Elemental Analysis

NuMega Resonance Labs
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!**

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

Section's Website:
http://
www.chem.cmu.edu/acs-pgh/

Facebook Page:
ACS Pittsburgh

Linked In:
PIttsburgh Local Section ACS

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 • email: results@robertson-microlit.com

Rapid Results • Quality • Accuracy • Competitive Pricing

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!

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 May 2010 issue must be to the editor by April 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

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

Advertisers Index

INDSPEC Chemical Corporation	10
MASS VAC, Inc.	7
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

Monday, April 5

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

Saturday, April 10

Job Searching for Chemical Professionals
Room A221/A224 Langley Hall, University of Pittsburgh, 4249 Fifth Ave., Pittsburgh, PA

Wednesday, April 14

ACS Pittsburgh Energy Technology Group
"Carbon Capture and Sequestration: Progress, Challenges, and Opportunities"
Dan Connell, CONSOL Energy Inc., R&D
Spaghetti Warehouse, 26th and Smallman Streets, Pittsburgh

Saturday, April 17

Society for Analytical Chemists of Pittsburgh & Spectroscopy Society of Pittsburgh Continuing Education Symposium
"Astronomical View of Space: The Moon and Beyond Via Telescopes From Earth and Space (Hubble)"
Rivers Casino - Andrew's Steakhouse, 777 Casino Dr., Pittsburgh, PA

Wednesday, April 21

Spectroscopy Society of Pittsburgh
"Energy, Spectroscopy and Photosynthesis"
Graham R. Fleming, Vice Chancellor for Reasearch 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)

Tuesday, April 27

ACS Pittsburgh Chemists Club
"Lymph Nodes as a Source of Other Tissues"
Eric Lagasse, Pharm.D., Ph.D., Associate Professor Department of Pathology, Director of the Cancer Stem Cell Center, McGowan Institute for Regenerative Medicine, University of Pittsburgh
Spaghetti Warehouse, 26th and Smallman Streets, Pittsburgh

Monday, May 10

The 2010 Tripartite Symposium
"From the Crime Scene to the Lab: Furthering Forensic Science"
Duquesne University, Duquesne Room, Student Union, 600 Forbes Ave., Pittsburgh, PA

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/