Pittsburgh Section Celebrates 50 and 60 Year American Chemical Society Members

Congratulations to the following Pittsburgh Section 50 and 60 year American Chemical Society members. The members will receive ACS membership awards at the Pittsburgh Section ACS Chemists Club meeting on May 31st. Please see page 6 for more information.

50 YEAR MEMBERS
  Mr. Jesse Conner
  Dr. Norman Duffy
  Mr. Stephen Piskor
  Dr. G. Warren Smith
  Dr. Roger Arthur Steiger
  Mr. James Wenkhous
  Dr. Donald Wysocki

60 YEAR MEMBERS
  Dr. Theodore Cohen
  Mr. James Hurst
  Mr. Lewis D. Morse
  Mr. Thomas C. Ruppel
  Dr. Harold Strange
  Mr. Walter E.A. Struch

The Crucible is not published in June or July. The next issue will arrive in August.

All items for the August issue are due to the editor by July 1, 2011.

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Pittsburgh Section ACS

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

Facebook Page:
ACS Pittsburgh

Linked In:
Pittsburgh Local Section ACS
2011 Tripartite Symposium

Effective Practices and Challenges in STEM Education for Western Pennsylvania

Wednesday, May 4, 2011

University of Pittsburgh, Wesley W. Posvar Hall (WWPH) Room 1700
(Registration includes chit for parking at Soldiers and Sailors Garage on Bigelow between Fifth Ave and O’Hara)

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/

12:00 pm  Registration / Check-In Opens
1:00 pm  Introductory Remarks, Joseph J. Grabowski, on behalf of all sponsors
1:10 pm  Jennifer Cartier, Department of Instruction and Learning, School of Education, University of Pittsburgh
“What Do Teachers Need to Know to Support Student Learning in STEM Education”
2:00 pm  Donald Antczak, Teacher, Central Elementary School, Hampton Township School District
“Science Olympiad, Increasing An Interest In Science”
2:30 pm  Robert J. Scherrer, Principal, Pittsburgh Science & Technology Academy
“The Pittsburgh Science & Technology Academy: Rethinking STEM education for grades 6-12”
3:00 pm  Cookie and Ice-Tea break
3:20 pm  Linda Ortenzo, Director of STEM Programs, Carnegie Science Center, Pittsburgh
“STEM Education: The Impact of Informal Science Programs and Competitions”
3:50 pm  David Yaron, Department of Chemistry, Carnegie Mellon University
“Online Materials that Promote Conceptual Learning in Introductory Chemistry”
4:20 pm  Bert E. Holmes, National Science Foundation, Program Director, Division of Undergraduate Education
“Trends, Challenges and Opportunities in NSF-Catalyzed Developments in UG Chemistry Education”
5:10 pm  Wine, Cheese and Poster Reception

For more info or to arrange special needs contact: Joe Grabowski (joeg@pitt.edu or 412-624-8632)
(Teachers should also contact Joe if they are interested in Act 48 hours.)

To reserve a seat and a validated parking chit, register by April 27, 2011
COST: $10 (Exceptions: full-time students and poster-presenters who pre-register can attend for free)
Mail check (if not a full-time student or poster-presenter; payable to SSP) and the completed form to:
SSP - Tripartite Symposium, 300 Penn Center Blvd, Suite 332, Pittsburgh, PA 15235

Have a STEM education project you want to share? Please bring a poster and let us know you are doing so.

NAME: _______________________________________ COMPANY: ___________________________
ADDRESS: __________________________________________________________________________
CITY: _________________________________________ ST: ________ ZIP: _________________
EMAIL: ______________________________________ PHONE: __________________________
POSTER-PRESENTER? ______ FULL-TIME STUDENT? _______ or CHECK #_________
Mass Spectrometry Discussion Group of Pittsburgh

Thursday, June 23, 2011

MANUFACTURER’S NIGHT AND POSTER SESSION

Pittsburgh Athletic Association - Pennsylvania Room
4215 Fifth Avenue, Pittsburgh PA 15213
(for free parking, must park in Soldiers and Sailors Parking Garage - bring ticket to meeting)

New this year:
The best undergraduate or graduate student poster (must show MS work) will receive a cash prize ($500 and counting), presented at the dinner!

PROGRAM

3:30 P.M. Manufacturer’s Booths and Poster Session
5:30 P.M. Cocktails and Social Hour
6:00 P.M. Complimentary Dinner
7:00 P.M. Student Poster Award Presentation
7:05 P.M. 5 Minute Presentations from our Vendors

MUST RSVP to register for complimentary dinner to:
Heather Juzwa, hljuzwa@shimadzu.com by June 16th.
Tell Heather if you plan to bring a poster. Please indicate meal and dessert choice in RSVP:

Roasted Vegetable Ravioli
Broiled Orange Roughy
Stuffed Chicken Breast
Chocolate Cream Pie
Key Lime Pie
Coconut Cream Pie

For more information, visit the MSDG website at http://chemed.chem.pitt.edu/ssp-msdg/
or contact Heather Juzwa by email at hljuzwa@shimadzu.com.
Spectroscopy Society of Pittsburgh

Presents a Continuing Education Symposium:

“Financial Planning in a Global Economy”

Saturday, May 7, 2011

8:45 am – 1:00 pm

Pittsburgh Athletic Association – 2nd Floor Library
4215 Fifth Avenue, Pittsburgh, PA 15213

PROGRAM

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:45-9:15</td>
<td>Registration</td>
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<tr>
<td>9:15-10:30</td>
<td>Jayme Meredith, Vice-President and Financial Advisor</td>
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<tr>
<td>10:30-10:45</td>
<td>Break</td>
</tr>
<tr>
<td>10:45-11:30</td>
<td>Matthew Snider, Vice-President and Financial Advisor</td>
</tr>
<tr>
<td>11:30-12:00</td>
<td>Question and Answer Session</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

OPEN TO THE PUBLIC

Please register by April 27, 2011

Topics Include:

• What to ask and what you should be able to answer
• How to keep on track to meet goals
• Risks and how to handle them
• How to choose a financial professional
• Common mistakes
• Basics of portfolio construction
• How to determine financial goals
• Diversification and its importance
• Current economic and investment outlook
• Types of investment accounts and vehicles

Registration Fee: $10 ($5 for Student and Retiree) - Lunch & Parking* Included
(*Soldiers and Sailors lot)

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

Jenna Sabot
SSP – Continuing Education
300 Penn Center Blvd, Suite 332
Pittsburgh, PA 15235

SACP Continuing Education Registration Form - May 7, 2011

Name: ____________________________ Affiliation: ____________________________

Mailing Address: __________________________________________________________

Email: ____________________________ Phone: ________________________________

Indicate Meal Choice:  □ Traditional Club    □ Jumbo Fish Sandwich    □ Grilled Vegetable Sandwich
SMART GRID SYMPOSIUM
THE COMING REVOLUTION
IN ELECTRICAL POWER

Thursday, May 19, 2011
8:30 am - 5:00 pm

Carnegie Mellon University
Rangos Hall at the University Center

Sponsored by:
American Institute of Chemical Engineers - Pittsburgh Chapter
American Chemical Society - Pittsburgh Section

Confirmed Speakers include:

Marija D. Ilic, Professor of Electrical & Computer Engineering and Engineering & Public Policy, Carnegie Mellon University; and Honorary Chaired Professor for Control of Future Electricity Network Operations, Delft University of Technology

Ernest Wohnig, Senior Associate and Energy Security Associate, Booz Allen Hamilton

Jay Whitacre, Professor of Materials Science and Engineering and Engineering and Public Policy; and Founder and Chief Technology Officer of Aquion Energy, Inc.

Volker Hartkopf, Professor of Architecture and Director of the Center for Building Performance and Diagnostics, Carnegie Mellon University “Building as Power Plant and the Significance of its Connection to the Smart Grid”

David J. McShane, Executive Vice President of Business Development and Engineering, International Battery “Large Format Lithium Batteries as Part of the Distributed and Bulk Energy Storage Value Proposition for Smart Grid”

Registration for the symposium will open in early April; the registration fee will be $55, $35 for students. For more information visit www.aichepgh.org or contact Joseph Jolson at joe@customclientsolutions.net.
This presentation will speak about the importance and the challenges of teaching interdisciplinary undergraduate courses. The experience of the speaker in this area is mostly based on several years of co-teaching the course “The Art and Science of Color” to undergraduates in the seemingly distant fields of Art and Chemistry. The color of materials is a property easily noticeable and has made minerals attractive to people for millennia. Artists have used minerals to create pigments, which formed the bulk of the artistic palette until the industrial revolution. With the advent of mass-produced art materials in the nineteenth century, the distance between the chemist and artist increased until the two worlds have little communication.

This course aims at reconnecting Chemistry and Art through a study of their common ground, namely the color of pigments used by artists over the centuries. Students work collaboratively on laboratory projects involving the synthesis of inorganic pigments. In the art studio, they prepare egg-tempura paints and use them in paintings designed to increase their color skills. The results of their final projects are displayed in University exhibition space. Researchers who work at the boundary between art and chemistry give guest lectures and the class makes field trips to local research labs and museums. The rewards and challenges of teaching such a course, which are commensurate with the diversity of backgrounds and interests of the Art and Chemistry students who take the course, will be discussed.

**Biography:**
Catalina Achim grew up in Macin, Romania. (Macin is a city of ten thousand people on the river Danube about two hundred miles away from the Black Sea. The Roman ruins of the city Arrubium can still be seen on the outskirts of Macin, evidence of the city’s two thousand year existence.) Catalina received her B.S. and M.S. in Chemistry from the Faculty of Chemistry of the Polytechnical Institute of Bucharest, Romania. After working for four years as a research analytical chemist at the Meteorological Institute in Bucharest and as a teaching assistant in the Department of Inorganic Chemistry of the Faculty of Chemistry at the University of Bucharest, she came in 1993 to Pittsburgh’s Carnegie Mellon University to obtain her PhD. She worked with Eckard Munck and Emile Bovinaar on the characterization of iron proteins that have electron transfer roles and on the elucidation on the structure and function of non-heme iron-oxo enzymes. In 1999, she joined the laboratory of R.H.Holm at Harvard and worked for two years on the synthesis and characterization of mixed-valence iron complexes, as well as, on the use of peptides as scaffolds for Fe-S cluster incorporation. After these postdoctoral studies, Catalina returned to the Department of Chemistry at Carnegie Mellon University and is now Associate Professor of Inorganic Chemistry. Her current research is in supramolecular and physical inorganic chemistry. She focuses on the synthesis and characterization of hybrid inorganic-nucleic acid molecules and polynuclear transition metal clusters for potential applications in nanotechnology.

**For Reservations,** please call Ed Martin by noon Friday, May 27, 2011 at (724) 335-0904 or by e-mail at edwardmartin1046@verizon.net
SPECTROSCOPY SOCIETY
OF PITTSBURGH

SSP AWARDS CEREMONY
&
FORMER CHAIRMEN NIGHT

WEDNESDAY, MAY 18, 2011

5:30 P.M. - Social Hour
6:30 P.M. - Dinner
Presentation of Awards
Recognition of Former Chairmen

DUQUESNE UNIVERSITY
DUQUESNE UNION
FOURTH FLOOR BALLROOM

- RESERVATIONS -
The entrée is TBD. Please email Jenna Sabot at sabot@pittcon.org or call (412) 825-3220 x212 for reservations NO LATER THAN WEDNESDAY, May 13, 2011. Please provide first name, last name and relationship for all attending.

- 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.

ALL EVENTS WILL BE HELD IN
THE FOURTH FLOOR BALLROOM

RSVP IS REQUIRED

Councilor’s Report
Report on:
ACS SPRING 2011
NATIONAL MEETING
Anaheim, CA
April 1, 2011

Four of ACS Pittsburgh Section Councilors were in attendance at Anaheim, CA.

The following candidates for President-Elect for 2012 are:
• Dennis Chamot
• Marinda Li Wu

The candidates for Director at Large for a 2012-2014 term are:
• Ken B Anderson
• William F. Carroll, Jr.
• Charles E. Kolb
• Barbara A. Sawrey

The Committee on Meetings & Expositions reported that the total meeting registration was 14,047. Of these, 7,336 were regular registrations, 1,097 were exhibitors, 4,682 were students, 599 were exposition only, and 333 guests. The exposition had 271 companies represented in 417 booths. The employment bureau had 795 job candidates, 39 employers and 182 jobs available.

Council votes:
• To amend the charter of the Committee on Technician Affairs to include updated terminology.
• To set the member dues for 2012 at the fully escalated rate of $148. This

Continued on Page 8
The rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

- To change the name of the Northeast Oklahoma Section to the Northern Oklahoma Section. This name change is due to the recent merger of the North Central Oklahoma Section and its territories into the Northeast Oklahoma Section. The proposed name change more closely reflects the combined territories of the two Sections.

- To continue for three years the current formula for determining allotments to divisions.

- To authorize the formation of the following two new international chemical sciences chapters: the Shanghai International Chemical Sciences Chapter and the Thailand International Chemical Sciences Chapter.

The Council was reminded of grant deadlines from the Committee on Local Section Activities as follows:

- Science Café Grants – Ongoing
- Bridging the Gap: Student Member Grant – December 1
- Bridging the Gap: IYC Grant – June 1
- Innovative Project Grants – June 30
- Joint LSAC/IAC International Interaction Grant - TBA

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- Innovative Project Grants – June 30
- Joint LSAC/IAC International Interaction Grant - TBA

Membership recruitment efforts were exceptionally successful in 2010. It is particularly impressive that due to efficiencies in recruiting efforts, the net cost to recruit the more than 25,000 new members decreased from $122 per
THE PITTSBURGH SECTION
AMERICAN CHEMICAL SOCIETY

and

THE SOCIETY FOR ANALYTICAL CHEMISTS
OF PITTSBURGH

MAY AWARDS BANQUET

Monday, May 16, 2011

Duquesne University
Power Center Ballroom

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

Dinner reservations: Please email Valarie Daugherty (daugherty@pittcon.org), SACP Administrative Assistant by Thursday, May 9, 2011. Should you not have email, please call Valarie at 412-825-3220 ext 204. Dinner will cost $15.00 and checks can be made payable to the SACP.

Councilor’s Report
Continued from Page 8

member in 2008 to $67 in 2010 despite increases in costs for postage and printing. The official membership number for 2011 stands at 163,111.

The Executive Director/CEO and several of her direct reports updated the Board on the Activities of CAS (Chemical Abstracts Service), the ACS Publications Division, and the Society’s General Counsel.

The General Counsel report included an update on the ACS vs. Leadscope litigation. ACS’s appeal, which is supported by several prominent Ohio organizations and the Ohio Attorney General, has been accepted by the Ohio Supreme Court, and is under review by that body. As a follow-up to the Publications report, the Board voted to approve three editor reappointments to ACS journals.

The American Chemical Society and the Federation of Asian Chemical Societies (a federation of 28 chemical societies of countries and territories in the Asia Pacific) agreed to a three-year collaboration alliance characterized by mutual benefits, impact, and commitment to cooperation in service to chemical scientists, engineers and professionals represented by the respective organizations. The signing of this memorandum of understanding took place during a special ceremony at the Board’s regular sessions.

Submitted by Pittsburgh Councilors:
Richard S. Danchik (Author)
James Manner
Michael Mautino
Joseph Jolson (Alternate Councilor)
SOCIETY FOR ANALYTICAL CHEMISTS OF PITTSBURGH

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• Promoting Science Education

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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
PITTSBURGH SECTION OFFICERS

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

Chair-Elect
Michelle Ward-Muscatoello
Dept. of Chemistry
University of Pittsburgh
219 Parkman Ave.
Pittsburgh, PA 15260
412-624-8064
muscat@pitt.edu

Secretary
Michelle Coffman
246 Inglewood Dr.
Pittsburgh, PA 15228
(412)600-8502
mablanken@hotmail.com

Treasurer
Emanuel Schreiber
University of Pittsburgh
Genomics and Proteomics Core Laboratories
3501 Fifth Ave.
BST-3, Room 9035
Pittsburgh, PA 15260
Office phone: 412-624-6862

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 August 2011 issue must be to the editor by July 1, 2011.

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

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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

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

Wednesday, May 4
2011 Tripartite Symposium
*Effective Practices and Challenges in STEM Education for Western Pennsylvania*
University of Pittsburgh, Wesley W. Posvar Hall (WWPH) Room 1700, Pittsburgh, PA

Saturday, May 7
Spectroscopy Society of Pittsburgh
*Continuing Education Symposium*
“Financial Planning in a Global Economy”
Pittsburgh Athletic Association - 2nd Floor Library
4215 Fifth Avenue, Pittsburgh, PA

Monday, May 16
Society for Analytical Chemists of Pittsburgh
*The Pittsburgh Section ACS May Awards Banquet*
Duquesne University, Power Center Ballroom, Pittsburgh, PA

Wednesday, May 18
Spectroscopy Society of Pittsburgh
*SSP Awards Ceremony & Former Chairmen Night*
Duquesne University, Duquesne Union, Fourth Floor Ballroom, Pittsburgh, PA

Thursday, May 19
ACS Pittsburgh Energy Technology Group
Pittsburgh Section AIChE
*SMART GRID SYMPOSIUM*
Carnegie Mellon University, Rangos Hall at the University Center, Pittsburgh, PA

Tuesday, May 31
ACS Pittsburgh Chemists Club
*Presentation of 50 and 60 Year ACS Membership Awards*
“Connections Between Art & Science for Undergraduate Teaching”
Dr. Catalina Achim, Associate Professor, Chemistry Department, Carnegie Mellon University
Spaghetti Warehouse, 26th & Smallman Streets, Pittsburgh, PA

Tuesday, June 7
ACS Pittsburgh Energy Technology Group
Pittsburgh Section AIChE
*“Astrophysics and the Evolution of the Universe”*
Dr. Leonard Kisslinger, Carnegie Mellon University
Spaghetti Warehouse, 26th & Smallman Streets, Pittsburgh, PA

Thursday, June 23
Mass Spectrometry Discussion Group of Pittsburgh
*Manufacturer’s Night and Poster Session*
Pittsburgh Athletic Association, Pennsylvania Room, 4215 Fifth 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/acspgh/