

V. Michael Mautino Named Pittsburgh Section **ACS Outreach Volunteer of the Year** 

In an effort to recognize the immeasurable outreach efforts made by local section volunteers, the Commit-

tee of Community Activities (CCA) has established the Local Section Outreach Volunteers of the Year recognition program. Each local section has an opportunity to recognize one individual annually for demonstrating extraordinary outreach volunteer service within the section.

CCA honors 65 volunteers this year. In recognition of ACS Outreach Volunteer their exemplary outreach of the Year Awardee, V. For more information on efforts, ACS has provided Michael Mautino each participating local sec-

tion with a certificate and recognition gift to present to the awardee during a local section meeting or other local section event. The awardees will also be recognized by the Chair of CCA, George L. Heard, in an issue of Chemical & Engineering News (C&EN) later this year.

The Pittsburgh section of the ACS wishes to recognize and congratulate Michael Mautino as the 2014 ACS Pittsburgh Section Outreach Volunteer of the Year. This award is given in recognition of his tireless efforts to organize and publicize the Pittsburgh Section's NCW events. Michael has served as the NCW representative for the ACS Pittsburgh Section for a number of years. In his role, he works closely

with the Carnegie Science Center to plan and carry out National Chemistry Week programs that highlight

> the role of chemistry in our society. Michael also encourages attendance at NCW programs with many local school districts in Pittsburgh and in the surrounding areas. Michael's impact on our NCW activities is evident from the high level of participation and the number of students who attend the programs each year.

the Local Section Outreach Volunteer of the year

award or to view all 65 awardees, visit the ACS website at http://www. acs.org/content/acs/en/membership-and-networks/ls/grantsawards/ local-section-outreach-volunteers-ofthe-year.html

## **Pittsburgh Section Travel Grant Winners**

Congratulations to Bemnet Kebede from St. Francis University and Andrew Pingitore from Washington & Jefferson College. They are the latest Pittsburgh Section travel grant winners. Both presented their research at the Spring National meeting held in Dallas, TX, March 16-20, 2014.

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# In Memory Mílton Manes, Ph.D.

Milton Manes, Ph.D., 95, died on February 27, 2014 in Pittsburgh, Pennsylvania.

Born in New York City, he graduated from City College (New York) in 1937 and received a Ph.D. in physical chemistry from Duke University in 1947.

His principal research was on activated carbon. Earlier publications dealt with nonequilibrium thermodynamics and relations between kinetics and equilibrium. He was at one time the Chairman of the Physical Chemistry Group of the Pittsburgh Section of the ACS and was a 72-year member.

In Pittsburgh he was a physical chemist with the U.S. Bureau of Mines, Koppers Company, and Pittsburgh Activated Carbon Company and head of the Adsorption Fellowship at Mellon Institute. In 1967 he went to Kent State University as professor in the Chemistry Department. He returned to Pittsburgh on his retirement in 1985.

He is survived by his wife, Carol, a son, Stephen (Susan Kocik), and a daughter, Eleanor (Siegfried Wevering).

The Pittsburgh Section ACS extends its condolences to the Manes family.



# Society for Analytical Chemists of Pittsburgh



April Meeting Monday, April 7, 2014 8:00 PM Duquesne University

# "High Throughput LC/MS Analysis for Food Safety and Cosmetics"

**Perry G. Wang, Ph.D.** US Food and Drug Administration (US FDA)

**Abstract:** Food and cosmetics safety has become a global issue. As a key component for human survival, a safe food supply is essential for a healthy and productive population throughout the world. To determine the harmful substances in food and feed, high resolution mass spectrometry has recently been developed and commercialized. In this presentation, the advanced MS technologies for food safety and cosmetics will be introduced. Challenges and method validation will be reviewed and discussed as well.

**Biography:** Dr. Perry G. Wang is a research chemist in the Office of Regulatory Science, US Food and Drug Administration (US FDA). His interests include analytical method development and validation for drugs and constituents of foods and cosmetic products using advanced instrumentation. His expertise focuses on high throughput drug analysis by LC-MS/MS. His current research focuses on developing analytical methods for constituents in cosmetics and dietary supplements by GC-MS/MS and LC-MS/MS.

In addition to numerous peer-reviewed publications, Dr. Wang has edited and co-edited four monographs: High-Throughput Analysis in the Pharmaceutical Industry, CRC Press, ISBN: 978-1-4200-5953-3, 2008; Monolithic Chromatography and Its Modern Applications, ILM Publications, Hertfordshire, UK; ISBN: 978-1-906799-03-8, 2010; Hydrophilic Interaction Liquid Chromatography (HILIC) and Advanced Applications, CRC Press, ISBN: 978-1-4398-0753-8, 2011; Counterfeit Medicines (Vol. I and II), ILM Publications, Hertfordshire, UK; ISBN: 978-1-906799-08-3, 2012

He received his B.S. degree in chemistry from Shandong University, China and Ph.D. degree in environmental engineering from Oregon State University, USA.

**Dinner Reservations:** Please email the SACP Administrative Assistant, Valarie Daugherty at daugherty@pittcon.org by Monday, March 31, 2014 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.

### **ACS Energy Technology Group**

Tuesday, April 8, 2014

## "Energy Storage in Thin Sputtered Films"

James R. Gaines Technical Director, Materials Group, Kurt J. Lesker Company

### Social Hour 6:00 PM, Dinner 6:30 PM, Talk 7:30 PM

#### Spaghetti Warehouse 26<sup>th</sup> & Smallman Streets, Strip District, Pittsburgh PA Free parking behind the restaurant

After nearly 20 years of development, thin film, all solid-state, rechargeable batteries are available to the market in large scale. In addition to their extraordinarily small form factor, these micro-batteries demonstrate several great properties including near perfect charge/discharge performance over thousands of cycles, high energy and power densities, and extremely low self-discharge rates. This presentation will discuss specific characteristics of these revolutionary batteries, comparisons with competing batteries, the manufacturing process, key players in the industry, and the impact of the micro-battery on future product designs. Barriers to wide-spread commercialization will also be discussed as well as the role of the Kurt J. Lesker Company in this emerging industry.

J.R. Gaines, Jr. is the Technical Director of the Materials Group at the Kurt J. Lesker Company (KJLC) located in Jefferson Hills, PA. He has spent his career in the development and commercialization of advanced materials including temperature sensors, high temperature superconductors and ceramics for thin applications such as thin film batteries and electro-chromic windows. Prior to joining KJLC, J.R. worked for Lake Shore Cryotronics manufacturing temperature sensors, Superconductive Components, Inc. where he developed a line of products based on ceramic high temperature superconductors which includes powders, sputtering targets and levitation components, Oak Ridge Micro-Energy where he helped commercialize thin film batteries, and the Sputtering Target Manufacturing Company where he developed a unique sputter target manufacturing approach for low cost production of advanced ceramic components. That company was acquired by the Kurt J. Lesker Company in 2007. In addition to supporting a wide range of thin film materials for research applications such as non-volatile memory, FeRAM, transparent conductive oxides and thin film capacitors, his work is currently focused on the optimization of properties for sputtering targets used to make thin film batteries, electro-chromic windows and ferroelectric devices.

#### For reservations, please contact Elliott Bergman at elliott.acstechnology@ gmail.com by 1:00 on April 7. Walk-ins are welcome. Our meetings are open to all. Cash or check payable to: Energy Tech Pgh Section ACS.

The cost of the dinner is \$20 including tax and gratuity. Alcoholic drinks cost extra. Please specify your preference from the following menu choices: Spaghetti with meatballs, 15-layer lasagna, Four-cheese manicotti, Fettuccini Alfredo, Pesto Pasta, or Grilled chicken Caesar salad. Please indicate special needs such as vegetarian, gluten-free, etc. The American Chemical Society Student Members Proudly Present

## Science You Can See!

Dr. Gregg Gould California University of Pennsylvania Demonstrates Exciting Chemical Principles

# April 23<sup>rd</sup> 6:00-7:30 Union Ballroom

Free Event Sponsored by The Duquesne Program Council



### **chatham**university

Text CHEM to 313131 for a link to FAQs. Message and data rate may apply.



# The Spectroscopy Society of Pittsburgh



April Meeting Wednesday – April 16, 2014 Duquesne University

### Technology Forum Speaker's Presentation 5:30 PM Social Hour 5:30 PM • Dinner in the City View Café (6<sup>th</sup> Floor) 6:30 PM Business Meeting 8:00 PM • Technical Program Speaker's Presentation 8:15 PM

#### **TECHNICAL PROGRAM - 8:15 PM**

"Molecules in Circuits: A Revolution in Microelectronics"

Dr. Rick M Creery, University of Alberta

**Abstract:** Molecules may be considered electronic systems, with electrons rapidly moving through molecular orbitals and also long distances in biological metabolism and photosynthesis. The prospect of incorporating molecules into microelectronic circuits based on silicon and metallic conductors has great potential for enhancing consumer electronics, providing solar energy conversion and permitting new functions not possible with silicon. In order to combine the electronic properties of molecules with conventional microelectronics, we need to understand how to "connect" to molecules as well as how electronics are transported through molecular. Once the "rules" of charge transport through molecules are understood, it should be possible to "rationally design" new molecular electronic devices for valuable functions not currently possible with silicon. While Molecular Electronics holds great promise, it also presents significant challenges in handling and fabrication of devices with dimensions of only a few nanometers. We use surface chemistry, spectroscopy and conjugated organic molecules to make "molecular junctions" consisting of a single layer of molecules between conducting carbon and copper electronic components to greatly enhance the already powerful world of silicon microelectronics.

**Bio:** Richard L. M<sup>c</sup>Creery is currently Professor of Chemistry at the University of Alberta, with a joint appointment as a Senior Research Officer at the National Institute for Nanotechnology. Until 2006, he was Dow Professor of Chemistry at the Ohio State University. He received his B.S. in chemistry from the University of California, Riverside, in 1970, and Ph.D. under Ralph Adams at the University of Kansas in 1974. His research involves spectroscopic probes of electrochemical processes, the electronic and electrochemical properties of carbon materials, and carbon-based molecular electronics. Much of the research involves collaborations with materials scientists and engineers, as well as surface scientists and electrochemists. He leads an effort at NINT and UofA to investigate hybrid devices for molecular electronics, which combine existing CMOS technology with new electronic and optoelectronic devices containing active molecular components. McCreery has written over 230 refereed publications, including one book and ten U.S. Patents, with three of those extended to Europe and Japan. He has served as an Associate Editor for the American Chemical Society journal Analytical Chemistry since 2004.

### **TECHNOLOGY FORUM - 5:30 PM**

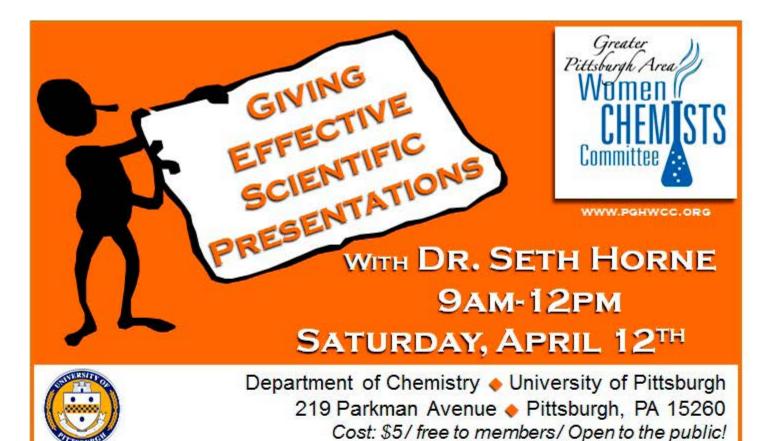
#### "The Integrative Approach to Treating Lower Back Pain"

Eric Helm, M.D., University of Pittsburgh Medical Center

The incidence of an episode of low back pain ranges from 5% to 36%, with 1 year episode re-exacerbation rates around 50%. Multiple etiologies exist in low back pain. The treatment approach should be multi-faceted, utilizing physical therapy, exercise programs, medications, interventions, and holistic methods.

**Eric R. Helm, MD**, a graduate of the University of Pittsburgh Medical Center Department of Physical Medicine and Rehabilitation residency program, joined the faculty as an assistant professor after completing the Pain Medicine Fellowship in the University Of Pittsburgh Medical Center Department Of Anesthesiology. He completed medical doctorate studies in 2008 at the University Of Toledo College Of Medicine. His interests include: musculoskeletal and sports medicine, chronic pain medicine, diagnostic ultrasound examinations, ultrasound guided procedures, neuromodulation, implantation and management of intrathecal medication delivery systems, axial spine and peripheral nerve blocks. His Board Certifications include American Board of Physical Medicine and Rehabilitation and Subspecialty in Pain Medicine.

**Dinner Reservations:** Please register on-line at http://www.ssp-pgh.org/monthly-meeting-rsvp/ to make dinner reservations NO LATER THAN Thursday, April 10, 2014 at noon. Dinner will cost \$10 (\$5 for students) and checks can be made out to the SSP. If you have any dietary restrictions, please indicate them when you RSVP. **Parking Instructions:** The Duquesne University Parking Garage is located on Forbes Avenue. Upon entering the garage, receive parking ticket and drive to upper floors. Pick up a parking chit at the dinner or meeting.



The oral communication of research results is an integral part of the job for practicing scientists, whatever their field. It may be tempting to believe that good science will always speak for itself; however, the ability to clearly convey the substance and importance of a particular set of data plays a huge role in how those results are received. The purpose of this workshop is to provide a primer on some of the essential skills necessary to give effective research talks.

Topics covered will include:

- ✓ Structuring a presentation based on different formats, lengths, and target audiences
- ✓ Framing a problem and placing work in context
- ✓ Slide design with an emphasis on what makes a good vs. bad figure
- ✓ General tips for success and common pitfalls to avoid
- ✓ Considerations unique to posters and poster talks for scientific meetings

# **REGISTRATION DEADLINE: APRIL 4<sup>TM</sup>**

To register, please send the form below and a check made out to "Greater Pittsburgh WCC" to Dr. Michelle Ward / 219 Parkman Ave / Room 107 / Pittsburgh, PA 15260. You may also RSVP and submit payment via the Upcoming Events page on our website: www.pghWCC.org.

### GIVING EFFECTIVE SCIENTIFIC PRESENTATIONS

Name:

Affiliation:

Email:

# 2014 Tripartite Symposium



Sponsored by





Did You Know…

# Madame Marie Curie visited the University of Pittsburgh 93 years ago? *Here she comes again!!!*

When:	Saturday, May 3 <sup>rd</sup> , 2014
Where:	Parran Hall, University of Pittsburgh
	130 DeSoto Street (at 5 <sup>th</sup> Avenue), Pittsburgh, PA
Occasion:	The 2014 Tripartite Symposium: Marie Curie
	Program
8:15 AM	Registration (with light refreshments and beverages)
8:50 AM	Opening Remarks
9:00 AM	Manya: The Living History of Marie Curie
	(including 1 <sup>st</sup> Intermission) Susan Marie Frontczak, BS, MS, Founder, Storysmith®
	Susan Marie Frontczak, BS, MS, Founder, Storysmith®
11:10 AM	2 <sup>nd</sup> Intermission (with light refreshments & beverages)
11:25 AM	The Pittsburgh Visit of Madame Curie
	Joel O. Lubenau, BCE, MS, Emeritus Certified Health Physicist
12:15 AM	Questions and Answers
	Susan Marie Frontczak and Joel O. Lubenau
12:35 PM	Reception
	OPEN TO THE PUBLIC

Registration Deadline: <u>April 21, 2014</u> (Seats are limited!) Registration Fees (incl. Reception & Parking\*): \$15 (Adult); \$5 (Retiree & Student aged 12 & up) (\*Parking: O'Hara Parking Garage Entering on O'Hara Street.)

	2014 Tripartite Registration Form	
Name:	Affiliation:	
Email:	Phone:	
Registration Type (cl	heck one): Regular RetireeStudent (age 12 & up with ID)	
High School Teachers/Stu PA Teacher ACT 48 Cred	k all that may apply):       SSPSACPACS         idents-Educational Materials Needed:       YesNo         lit Needed?       Yes         res       No         Parking Voucher Needed?       YesNo	
	able to <u>Spectroscopy Society of Pittsburgh</u> and mail with Registration Form to: Ms. Shana Tokarski SSP - Tripartite Symposium 300 Penn Center Blvd., Suite 332 Pittsburgh, PA 15235 testions, please email <u>tokarski@pittcon.org</u> or call 412-825-3220, x212)	

### 2014 Tripartite Symposium Speakers

### Susan Marie Frontczak, B.S., M. S., Founder of Storysmith®



Ms. Frontczak received a B.S. in Engineering from Swarthmore College in 1977 and a Masters in Software Engineering from the Wang Institute of Graduate Studies in 1984. From 1978 through 1994 she worked as an engineer and manager at Hewlett Packard Company, designing on diverse projects such as a graphics tablet, integrated circuits, medical monitoring equipment, and user interfaces.

Meanwhile Susan's interest in drama began at the age of five; she wrote, directed, and produced her first one-act play at age eighteen; and was a founding member of a community theater in her twenties. An avocation in

Storytelling switched to a part-time profession in 1989, and grew. She took a one-year leave of absence from engineering in 1994 to give full-time storytelling a try. That one year has turned into twenty. In 1998 she founded Storysmith<sup>®</sup>, through which she has brought literature to life, created stories from thin air, and honed personal experience into tales worth telling again and again. From 1999 to 2001 she combined her interests in science and theater to develop "Manya: The Living History of Marie Curie" which has, to date, taken her to 31 of the United States and nine other countries. More information at <a href="http://www.storysmith.org">http://www.storysmith.org</a>

### Joel O. Lubenau, BCE, MS, Emeritus Certified Health Physicist



Joel graduated from The Cooper Union in New York City intending to be a civil engineer but Uncle Sam had other ideas (the draft was still on). He was commissioned a Reserve Officer in the U.S. Public Health Service and assigned to the Pennsylvania radiation control program. As a result of that experience, he switched to health physics. He received a MS in Radiological Health from Rutgers University and was elected to Sigma Xi.

His experience includes field, managerial, and senior staff positions with the PA Bureau of Radiation Protection, U.S. Atomic Energy Commission, and U.S. Nuclear Regulatory Commission. After retiring from government service in 1999 he was a consultant on safety and security of radioactive sources and emergency response planning.

Once again changing careers, Joel now writes on the history of the uses of radiation and radioactive materials in medicine and industry and their impact upon popular culture. His history articles have appeared in *Pennsylvania Heritage, Western Pennsylvania History, International Journal of Radiation Oncology, Biology, Physics,* and *The Invisible Light.* 



# **Chemists Celebrate Earth Day 2014 Illustrated Poem Contest**

The Pittsburgh Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten - 12th grade.

Contest Deadline: Entries must be received by Tuesday, April 22, 2014.

First Prize of \$50 will be award in each of 4 grade categories: K-2nd, 3rd-5th, 6th-8th and 9th-12th grades.

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

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

Write and illustrate a poem using the CCED theme, "The Wonders of Water". Your poem must be **no more** than 40 words, and in the following styles to be considered:

#### ODE · ABC POEM · FREE VERSE · END RHYME BLANK VERSE HAIKU . LIMERICK

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

- · Fresh water sources
- Water conservation and purification
- · Chemical composition of water

#### Entries will be judged based upon:

- Relevance to and incorporation of the theme
   Various physical properties of wate
- · Word choice and imagery
- Colorful artwork

· Any other relevant topics

· Physical properties of water

- Chemists Celebrate Earth Day
- Any other relevant topics

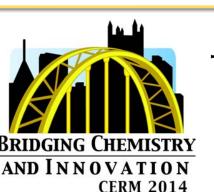


- · Poems must conform to a particular style. No poem may be longer than 40 words.
- . The topic of the poem and the illustration must be related to the CCED 2014 theme, "The Wonders of Water".
- · All entries must be original works without aid from others.
- · Each poem must be submitted and illustrated 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 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.





# THE 45<sup>th</sup> CENTRAL REGIONAL MEETING

# Ост. 29 – Nov. 1, 2014

DOUBLETREE BY HILTON PITTSBURGH - GREEN TREE

**BRADLEY D. SMITH, PH.D.** UNIVERSITY OF NOTRE DAME



WEDNESDAY 10/29

### **PLENARY SPEAKERS**

2014 ACS Central

Regional Meeting

VICKI H. WYSOCKI, PH.D. THE OHIO STATE UNIVERSITY



THURSDAY 10/30



ENERG

WWW.ACSCERM2014.ORG

HEALT



Friday 10/31

# **EXPOSITION AND TECHNICAL SYMPOSIA**

COVERING CUTTING EDGE TECHNOLOGY IN ANALYTICAL, INORGANIC, ORGANIC, PHYSICAL, BIOCHEMICAL, POLYMER, PROTEOMICS, AND CHEMICAL EDUCATION

- VENDOR EXPOSITION
- PITTSBURGH AWARD
- DISTINGUISHED SERVICE Award
- •HIGH SCHOOL TEACHING Awards
- •Former Chairman Dinner

### SPECIAL EVENTS:

- •Women Chemists Committee Luncheon
- •Younger Chemists Committee Luncheon
- •Student Affiliates Luncheon
- •Sci-Mix Poster Session
- •Leadership Institute
- •CAREER WORKSHOP
- STUDENT AFFILIATE WORKSHOP
- •TEACHER TRAINING WORKSHOP
- •AND MORE ...

### FOR MORE INFORMATION CONTACT:

FOR GENERAL INFORMATION:

**JAY AUSES** *GENERAL CO-CHAIR* JPAUSES@PITT.EDU

HEATHER JUZWA GENERAL CO-CHAIR HLJUZWA@SHIMADZU.COM FOR PROGRAM INFORMATION

Adrian Michael Program Co-Chair Amichael@pitt.edu

MICHELLE WARD PROGRAM CO-CHAIR MUSCAT@PITT.EDU FOR EXPOSITION INFORMATION:

ELI ABSEY EXPOSITION CO-CHAIR ELI\_ABSEY@WATERS.COM

Brian Strohmeier Exposition Co-Chair brian.strohmeier@thermofisher.com



# **CERM 2014**

45th Central Regional Meeting Oct. 29 – Nov. 1, 2014, Pittsburgh, PA



		nttp://www.a	CSCEFFFI2014.0rg		
Acade	eme 🗆	Industry 🗆	Government  Other		
Name:					
Company/Institution:					
Street Address:					
City, State, Zip:					
Local Section:		ACS Division(s):			
Phone:	Fax:		Email:		
REGISTRATION FEES	ADVANCE Until October 3	ONSITE After October 3	Registration must be accompanied by payment in order to be processed.		
01. ACS Member	\$125	\$175	Request for refunds must be submitted in writing prior to October 3rd in order to receive a refund minus the \$25 administrative fee.		
02. Nonmember	\$200	\$250			
03. Graduate Student/Post-Doc	\$50	\$65	• Questions can be directed to ACS Regional Meetings at 1-800-333- 9511 or by contacting Lauren Stewart via email at L_stewart@acs.org.		
04. Undergraduate Student	\$35	\$50	Please contact Lauren Stewart to advise of any dietary or physical		
05. High School Teacher*	\$60	\$75	restrictions at L_stewart@acs.org.		
06. Retired/Emeritus	\$25	\$40	• *High School Teacher registration fee includes one Project Seed		
07. Unemployed	No Charge	No Charge	Luncheon Celebration ticket.		
08. 50+ Year ACS Member	No Charge	No Charge	• **Receive a 20% refund off payment for the Rum Science Event on		
<ul> <li>O9. High School or</li> <li>Project Seed Student</li> </ul>	No Charge	No Charge	Wednesday and/or Friday just for staying at the Double Tree Green Tree. Refunds will be issued after conference and upon verification of reservation.		
			• Conference Registration is not required to attend this event.		
□ 10. Guest	\$25	\$40	Spouse, relative or person who would not typically attend an ACS meeting Guest of:		

SOCIAL EVENTS					
Event		Date	Time	Price	
YCC Luncheon		Wednesday, October 29	12:00 PM – 1:20 PM	\$15.00	
Welcome Reception – Wine, Wii and 'Wiche	□ Welcome Reception – Wine, Wii and 'Wiches♦		7:00 PM – 9:00 PM	\$12.00	
Rum Science – Pittsburgh Style**		Wednesday, October 29	7:30 PM – 9:15 PM	\$45.00 (Includes transportation)	
U WCC Luncheon		Thursday, October 30	11:40 PM – 12:50 PM	\$25.00	
Central Regional Awards Reception & Dinne Please select your entrée preference:     Chicken Florentine	er <b>♦</b> Pasta Primavera	Thursday, October 30	Cash Bar: 5:00 PM Dinner: 6:00 PM Awards: 7:00 PM	\$40.00	
Undergraduate Network and Resume Lunch	eon	Friday, October 31	11:30 AM – 12:50 PM	\$10.00	
□ Ice Cream Social with ACS Governance		Friday, October 31	2:00 PM – 3:00 PM	Complimentary	
Rum Science– Pittsburgh Style and a View*	*	Friday, October 31	5:30 PM – 10:20 PM	\$55.00 (Includes transportation)	
<ul> <li>Project SEED Celebration Luncheon</li> <li>No Charge for High School &amp; Project Seed Stude</li> </ul>	nts	Saturday, November 1	11:30 AM – 1:30 PM	\$20.00	
WORKSHOPS					
ACS Career Workshop: Finding Your Pathway		Wednesday, October 29	8:00 AM – 12:00 PM	Complimentary	
ACS Career Workshop: Individual Resume Reviews		Wednesday, October 29	1:30 PM – 5:00 PM	Appointments will be scheduled.	
ACS Leadership Institute: Fostering Innovati	on***	Thursday, October 30	8:00 AM – 12:00 PM	Members: \$150 Non-Members: \$300	
ACS Leadership Institute: Leading Change*	**	Thursday, October 30	1:00 PM – 5:00 PM	Members: \$150 Non-Members: \$300	
TOTAL FEES: Registration \$	Method of Payment	t: 🛛 American Express	Master Card	Uvisa Check	
Social Events and Workshops \$				EXP DATE	

Cardholder Name (please print):

Signature:

TOTAL AMOUNT ENCLOSED

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# **CERM 2014 - WORKSHOP DESCRIPTIONS**

1. **Finding Your Pathway** - Learn about the four main career pathways available to chemical professionals: Higher education, industry, government, and entrepreneurial careers and why each one may or may not be the right choice for you. This workshop is not only ideal for graduate students and recent grads, but also experienced professionals who are considering a career change. In addition to learning about which types of careers are available in each pathway, you'll also learn about the job market and hiring trends to help you make your choice. The workshop allows time for you to inventory your own values, interests, background, strengths and weaknesses so that you can select which career pathway you'd like to explore in detail. This course is being offered on Wednesday, October 29<sup>th</sup> from 8:00 AM – 12:00 PM

2. Fostering Innovation \*\*\* - We are constantly challenged to come up with new ideas, approaches, and solutions, yet most of us feel ill-equipped to do this effectively. With a systematic and proven process to generate ideas you can lead your team to develop new ideas. Gain the understanding and tools to tap into your own innovation style and stimulate innovative thinking among your team members. This course is being offered on Thursday, October 30<sup>th</sup> from 8:00 AM – 12:00 PM

3. Leading Change \*\*\* - Change is a constant today, yet it is often met with resistance. Leading change—whether it is a change in priorities, direction, or people—is critical to your success as a leader in your profession. This course provides leaders with a step-wise process to lead change and guide committee members, division members, and local section members more effectively through the change process for greater results and efficiency. This course is being offered on Thursday, October 30<sup>th</sup> from 1:00 PM – 5:00 PM

\*\*\*You **MUST** go to www.acs.org/professionaladvancement to register and pay in order to reserve your seat for any of the ACS Leadership Courses being offered. The first nine people to register for any one of the Leadership Courses are complimentary and the next eleven registrants will receive a 50% discount.

#### SPECIAL EVENTS AND ATTRACTIONS

#### Rum Science – Pittsburgh Style, Wednesday, October 29th

Learn a litle rum science the old-fashioned way – through a tasty sampling of rum and a tour of Pittsburgh's only rum distillery in the city's Historic Strip District! You'll also learn the story behind Maggie's Farm Rum Distillery. Transportation to Maggie's leaves from the DoubleTree at 7:30 pm with tasting and a tour from 8-9 pm. Round-trip transportation for this event is included in the ticket price.

#### Rum Science – Pittsburgh Style and a View, Friday, October 31st

Take a taste and a ride as the science lesson includes Maggie's Farm Rum Distillery, a tour & tasting and then a ride up the historic Duquesne Incline where you will get a behind-the-scenes tour of the incline and discover the science of funiculars! Transportation to Maggie's leaves the DoubleTree at 5:30 pm with the tasting starting at 6 pm. Afterwards, you will be transported to the incline for a tour beginning at 7:20 pm. The view of downtown from the top of Mount Washington is one of the most beautiful in the city! After the tour, there will be free time to dine in Station Square before bus transportation back to the DoubleTree at 10 pm. *All transportation for this event is included in the ticket price.* 

CERM 2014 registrants and guests will receive a 20% discount on the 'Burgh, Bits and Bites Pittsburgh Food Tour, Saturday, Novem-

**ber 1**<sup>st</sup>. Transportation is NOT included. While you're here, come learn Pittsburgh history by sampling the ethnic foods that represent the many immigrants that came over and worked in the steel mills. Gain some insight while eating your way through a neighborhood and discover its history! Tours begin at either 10 am or 1:30 pm. For more information about Burgh, Bits and Bites check out their website http://burghfoodtour.com/. See the CERM website, www.acscerm2014.org, under 'Events' for more information on how to get your 20% discount!

#### CERM 2014 registrants and guests will receive a 20% discount on the Carrie Blast Furnace Tour, Saturday, November 1st.

Transportation is NOT included. Learn about Pittsburgh history as the former steelmaking capital of the world. The Carrie Blast Furnace tour is a two-hour retired steelworker guided tour of the only blast furnace left in Pittsburgh. Towering 92 feet over the Monongahela River, constructed of 2.5. thick steel plate and lined with refractory brick, Carrie Furnaces 6 and 7 are extremely rare examples of pre World War II iron-making technology. Since the collapse of the region's steel industry in the 1970's and 1980's, these are the only non-operative blast furnaces in the Pittsburgh District to remain standing. Tours begin at 10 am. For more information visit Carrie Blast Furnace Tour. See the CERM website, www.acscerm2014.org, under "Events' for information on how to receive your 20% discount.

Advance Registration ends Friday, October 3<sup>rd</sup> • All refunds are subject to the \$25 Administrative Fee • Make your hotel reservation at the DoubleTree Green Tree Hotel and receive 20% off the Whiskey Science Events • Visit www.acscerm2014.org for up-to-date programming information



# Regional Awards for Excellence in High School Teaching

## Call for Nomination CERM 2014

Sponsor: Division of Chemical Education

**Purpose:** To recognize, encourage, and stimulate outstanding teachers of high school chemistry in the ACS Regions.

**Nature:** The Region Award consists of a cash award and a plaque. Reasonable travel expenses to the Regional Meeting at which the award will be presented will be reimbursed. A certificate/plaque may also be provided to the recipient's institution for display. In some cases, the awardee may be asked to give a keynote address and/or participate in a symposium with other teachers.

**Eligibility:** Any individual, except a member of the award selection committee or currently enrolled student of the nominee, may submit one nomination or support form in any given year. The nominee must be actively engaged in the teaching of chemistry or a chemical science in a high school (grades 9-12) on at least a half-time basis. The nomination should clearly demonstrate as many of the following attributes as possible:

• The quality of the nominee's teaching; unusually effective methods of presentation should be emphasized;

• The nominee's ability to challenge and inspire students;

• Extracurricular work in chemistry or a chemical science by the nominee, including science fairs, science clubs, and activities that stimulate the interest of young people in chemistry and related sciences;

• A willingness to keep up-to-date in the field, as evidenced by the pursuit of a higher degree in chemistry or a chemical science, enrollment in refresher courses and summer institutes, regular attendance at scientific meetings, membership in professional organizations, and other means of self-improvement;

• Evidence of leadership and/or active involvement within the profession.

**Establishment & Support:** The Division of Chemical Education (DivCHED) established an endowment in 2004 to support Regional Awards for Excellence in High School Teaching in each of the ACS Regions.

**Contact Information**: All nomination materials should be emailed to CERM 2014 Awards Co-Chairs Fu-Tyan Lin and Huayun Yu (ftlfml@comcast.net and huayun. yu@ferro.com). Nomination forms and additional information can be found at the CERM website www.acscerm2014.org.



STANLEY C. ISRAEL REGIONAL AWARD FOR ADVANCING DIVERSITY IN THE CHEMICAL SCIENCES

Call for Nomination CERM 2014



The Stanley C. Israel Regional Award recognizes individuals and/ or institutions that have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region. For more information on this award, visit www.acs.org/diversity.

#### DEADLINE August 1, 2014

All nomination materials should be emailed to CERM 2014 Awards Co-Chairs Fu-Tyan Lin and Huayun Yu (ftlfml@comcast.net and huayun. yu@ferro.com). Nomination forms and additional information can be found at https://fs7.formsite.com/ acsdiversity/form565868622/ secure\_index.html.



# E. Ann Nalley Award for Volunteer Service to the American Chemical Society

## Call for Nomination CERM 2014

### **DEADLINE: SEPTEMBER 5, 2014**

**Purpose:** To recognize the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their Regional activities.

**Nature and Establishment:** This award was instituted in 2006 by ACS President E. Ann Nalley as part of her presidential initiative to recognize ACS volunteerism. It was Dr. Nalley's wish that the award continue in perpetuity at each regional meeting. The award consists of a plaque honoring the recipient with an imbedded medallion commemorating Dr. Nalley.

**Rules of Eligibility:** A nominee must be a member of the American Chemical Society residing in a local section within the region, and will have made significant contributions to their Region of the American Chemical Society. The volunteerism to be recognized may include a variety of activities, including but not limited to the initiation or sponsorship of a singular endeavor or exemplary leadership in the region. Past and present members of the ACS Board of Directors and staff are ineligible for this award.

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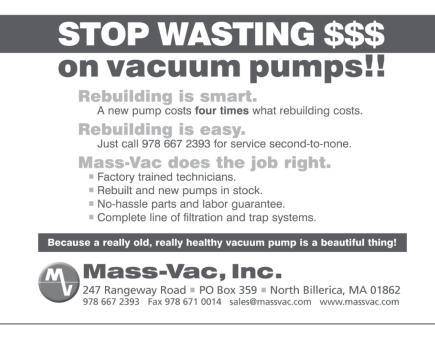
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CERM 2014 www.acscerm2014.org

Selection of Recipient: Nominations will be solicited from individuals, using the

channels customary for other awards in the region. The awards committee of the region, or its equivalent, will select the recipient.

**Submitting a nomination:** Submit each of the following: (1) nomination form, (2) up to two support forms, and (3) biographical sketch (or curriculum vitae) by September 5. All nomination materials should be emailed to CERM 2014 Awards Co-Chairs Fu-Tyan Lin and Huayun Yu (ftlfml@comcast.net and huayun.yu@ferro.com). Nomination forms and additional information can be found at the CERM website www.acscerm2014.org.



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## Volunteers Needed!

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

## **Crucible Deadline**

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

For example, all items for the May 2014 issue must be to the editor by April 1, 2014.

# 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** 

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# 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

### Saturday, April 5 Greater Pittsburgh Area Women Chemists Committee C<sup>3</sup> - Couture, Cosmetics, & Chemistry

University of Pittsburgh, 219 Parkman Ave., Pittsburgh, PA

#### Monday, April 7

### Society for Analytical Chemists of Pittsburgh

"High Throughput LC/MS Analysis for Food Safety and Cosmetics"

Perry G. Wang, Ph.D., US Food and Drug Administration Duquesne University, Pittsburgh, PA

# Tuesday, April 8

ACS Energy Technology Group "Energy Storage in Thin Sputtered Films" James R. Gaines, Technical Director, Materials Group, Kurt J. Lesker Company Spaghetti Warehouse, 26<sup>th</sup> & Smallman Streets, Strip District, Pittsburgh, PA

#### Saturday, April 12

**Greater Pittsburgh Area Women Chemists Committee** *Giving Effective Scientific Presentations* University of Pittsburgh, 219 Parkman Ave., Pittsburgh, PA Wednesday, April 16 The Spectroscopy Society of Pittsburgh *"Molecules in Circuits: A Revolution in Microelectronics"* Dr. Rick M<sup>c</sup>Creery, University of Alberta Duquesne University Pittsburgh, PA

#### **Technology Forum**

*"The Integrative Approach to Treating Lower Back Pain"* Eric Helm, M.D., University of Pittsburgh Medical Center Duquesne University, Pittsburgh, PA

#### Wednesday, April 23

ACS Student Members, Duquesne Program Council "Science You Can See" Duquesne University, Pittsburgh, PA

Saturday, May 3 Tripartite Symposium University of Pittsburgh, 130 DeSoto St. (at 5<sup>th</sup> Ave.), Pittsburgh, PA