

# the Catalyst



Official publication of the Philadelphia Section, ACS  
<http://philadelphia.sites.acs.org>

May 2013  
Volume 98, No. 5



**MAY MEETING**  
**Dr. Tom Barton**  
**President-Elect, ACS**

## HIGHLIGHTS

Chair's Column	93
Speaker's Biography	95
News Atoms	96
2009 ACS Fellow Dr. Madeleine M. Joullie	97
Report from Council, New Orleans Mtg.	100
Summer Networking Event	103
Calendar	111

## ADVANCE NOTICE

### JUNE MEETING

**Thursday, June 20, 2013**

### **Honoring Our 50-year Members**

Iron Hill Brewery  
Chestnut Hill, Philadelphia, PA

See the JUNE issue of *the Catalyst* for details,  
call the Section Office at (215) 382-1589 or email [PhilaACS@aol.com](mailto:PhilaACS@aol.com)

## STAFF

### EDITOR-IN-CHIEF

Robin S. Davis

### EDITORS

*News Atoms:* Alan Warren

*Proof Editors:* Georgia Arbuckle-Keil  
Kendra Luther  
Marge Matthews  
Alan Warren

### ADVERTISING MANAGER

Vince Gale

### COMMUNICATIONS COMMITTEE

**Chair:** Marge Matthews

Anthony W. Addison  
Georgia Arbuckle-Keil  
Matthew Bodek  
Robin S. Davis  
Vince Gale  
Robert Gates  
Corrie Kuniyoshi  
Kendra Luther  
Judy Summers-Gates  
Victor Tortorelli  
Alan Warren

## CONTENTS

June Advance Notice .....	91
From The Chair.....	93
Work for ACS.....	93
May Meeting .....	94
Speaker's Biography.....	95
News Atoms.....	96
Photo of Middle Atlantic Regional Board at the National Meeting.....	96
2009 ACS Fellow, Dr. Madeleine M. Joullié .....	97
Chemical Consultants Network .....	99
Report from ACS Council, April 2013.....	100
Poster Winners of Chemists Celebrate Earth Day....	102
Summer Networking Event .....	103
George Washington Carver Award Winners .....	104
PA House Resolutions of Interest .....	106
March 2013 Board of Directors' Meeting .....	107
Directory of Services.....	109
2013 Calendar .....	111

Published monthly except July, August and December by the Philadelphia Section of the American Chemical Society. All views expressed are those of the editors and contributors and do not necessarily represent the official position of the Philadelphia Section of the American Chemical Society. Editorial matters should be sent to the attention of the Editor-in-Chief c/o the Philadelphia Section ACS, Department of Chemistry, University of Pennsylvania, 231 South 34<sup>th</sup> Street, Philadelphia, PA 19104-6323 or philcatalyst@aol.com.

Advertising: Vince Gale, MBO Services, P.O. Box 1150, Marshfield, MA 02050,  
phone: (781) 837-0424; email: cust-svc@mboservices.net.

## From The Chair



### J.P. Northrop

My son, Rafe, was helping me water some plants outside this past weekend when he stopped and shouted, “Look Daddy, a rainbow!” Of course, the sun mixed with the spraying water from the hose had its usual effect and I tried to explain (to a three-year old) that you need at least two things for a rainbow, water and light.

Later that afternoon, with the fire in the fire pit dying out, he asked what happened to the wood. The scientist in me took over and said we had converted the wood into three things: heat, smoke and ashes. The heat we already felt, the smoke was taken away by the wind, and all that was left was the ashes.

So why tell these stories? Science is not only all around us, but for those of us with small children in the house, we get to experience the magic of science all over again. We get to be the great teachers that made science and chemistry fun, exciting, and, yes, magical.

May is traditionally the month where the Philadelphia Section celebrates achievements in, and grants awards to teachers in undergraduate and pre-college science education. This month, since the Mid-Atlantic Regional Division is not planning on having a meeting, we decided to join our awards banquets and have one large celebration down at University Club at Drexel University.

This joint meeting is scheduled to be a large gathering and one that is bound to be a great celebration of science teachers at all levels of education.

We are extremely lucky to have as a guest speaker Dr. Tom Barton, the national President-Elect for the ACS. His brief talk will be on the state of K-12 Science Education and what can be done to improve STEM (science, technology, engineering and math) education at early levels. It is sure to be a great talk and it is a wonderful opportunity for the members in the region to talk with national leadership of our organization. Details are in this issue of *the Catalyst*.

In a personal effort to increase STEM education and interest in the region, I am putting together a group of scientists who would be willing to talk to our school age children about the field of science that we all find exciting and new. This Speakers Group will consist of a variety of scientists who could do demos (magic shows) for the younger crowd or give talks to older children about what it is like to be a scientist in today’s world. If you are interested in helping out, or want us to come by your child’s school, please contact the section at [PhilaACS@aol.com](mailto:PhilaACS@aol.com).

---

### Interested in Working for ACS?

We are drawing up the slate of candidates for the fall 2013 election. Specifically, there are openings for chair-elect, secretary, directors, and councilors. The chair-elect has several responsibilities, including chairing the Section awards and program committees during the first year of the term and running the Section during the second year. The secretary is mainly responsible for taking the minutes at board meetings and preparing them for publication in *the Catalyst*. Directors form the governance of the local Section and meet monthly September-June. Councilors represent the Section at ACS national meetings.

If you would like to run, please get in touch with Rick Ewing ([william.ewing@bms.com](mailto:william.ewing@bms.com)) or Libby Harper ([PhilaACS@aol.com](mailto:PhilaACS@aol.com) or (215) 382-1589).

## MAY MEETING

AMERICAN CHEMICAL SOCIETY  
PHILADELPHIA SECTION and MIDDLE ATLANTIC REGION BOARD

present

**Dr. Tom Barton, ACS President-Elect and the Iowa State University**

*Many Problems, but Few Solutions, for K-12 Education*

and

**Presentation of 2013 Teaching Awards**

Philadelphia Section for  
EXCELLENCE IN UNDERGRADUATE TEACHING IN CHEMICAL SCIENCES

**Dr. Jason P. Cross, Delaware Valley College**

EXCELLENCE IN CHEMISTRY TEACHING AT THE SECONDARY LEVEL

**Derrick C. Wood, Conestoga High School**

Middle Atlantic Regional Awards

**E. EMMET REID AWARD FOR EXCELLENCE IN CHEMISTRY TEACHING AT A SMALL COLLEGE IN THE  
MID-ATLANTIC REGION**

**Dr. Anderson Marsh, Lebanon Valley College**

**ACS DIVISION OF CHEMICAL EDUCATION MIDDLE ATLANTIC REGION BOARD AWARD FOR EXCEL-  
LENCE IN HIGH SCHOOL TEACHING**

**Dr. Jayasree Sankar, Bergen County Technical High School-Teterboro**

Thursday, May 16, 2013

University Club at Drexel University  
MacAlister Hall, 3250 Chestnut Street (at 33<sup>rd</sup>)  
Philadelphia, PA 19104

University Club Lounge: 5:30 PM Reception  
City View Room: 6:15 PM Dinner  
7:00 PM Dr. Barton  
7:30 PM Award Presentations

Dinner cost \$25; Students with reservations and ID: \$15

**RESERVATIONS** should be made by calling Mrs. Harper at the Section Office, (215) 382-1589, or emailing PhilaACS@aol.com by 5:00 PM, Tuesday, May 7. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, May 14. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

**DIRECTIONS:** <http://www.drexel.edu/about/directions/university-city-directions/>

**PARKING** is available in the Drexel garage at 34<sup>th</sup> and Ludlow Streets or the University of Pennsylvania garage at 34<sup>th</sup> and Chestnut Streets. Going south on 34<sup>th</sup> Street, Ludlow is the first left past Market and the Penn garage is just past Ludlow. There may also be on street parking available.

The Board of Directors will meet at 4:00 PM in MacAlister 2020 Board Room.

## SPEAKER'S BIOGRAPHY

**Dr. Tom Barton**

**ACS 2013 Chair-Elect and Distinguished Professor Emeritus, Iowa State University**

Tom Barton grew up in the gulf coast of Texas the son of teachers (not chemistry!). He graduated in 1962 with a BS in Chemistry from Lamar University (Beaumont). He received his PhD in organic chemistry at the University of Florida in 1967 and worked as an NIH postdoctoral fellow at The Ohio State University before joining the Iowa State faculty in that same year. Not being accustomed to cold weather his plan was to get tenure, get an international reputation and get out. He's still there after 45 years, although retired since May of 2012, now holding the position of Distinguished Professor Emeritus.

In 1988, he became Director of the Ames Laboratory (US Department of Energy), where in addition to chemical research he experienced the worlds of condensed-matter physics, metallurgical science and a variety of other material sciences. In 1998, he was appointed Director of Iowa State University's Institute of Physical Research & Technology, where he directed a consortium of university research centers composed of a broad spectrum of engineering and physical sciences with a focus on industrial interaction uncommon in a university setting. He served one year as interim director of the Iowa Energy Center which funds and manages projects of energy efficiency and renewable energy.

Professor Barton has been a National Academy of Sciences exchange scientist in the Soviet Union, a NATO exchange scientist in France, a JSPS lecturer in Japan, and a professor d'echange at the University de Montpellier. In 1981, he was appointed to the editorial board of the new ACS journal, *Organometallics*. Professor Barton was selected as the recipient of the Frederic Stanley Kipping Award in Organosilicon Chemistry in 1982; in 1983 was honored to be the second recipient of the Iowa Governor's Science Teaching Medal; and in 1989 received an award for Outstanding Scientific Accomplishment in Materials Chemistry (DOE Materials Sciences Research Competition). He was the recipient of the American Chemical Society's 1995 Midwest Award. In 2003 he was named the Federal Laboratory Consortium's Laboratory Director of the Year for Technology Transfer. In 2012, he was elected to the Presidential succession of the American Chemical Society. He will serve as President-Elect in 2013, President in 2014, and Immediate Past President in 2015.

Although a physicist friend says, "Barton doesn't have hobbies, he has passions!" he has quite a few pastimes including fishing, riding motorcycles, flying (private pilot with instrument rating), sailing (water, ice and land), languages, running, skiing and scratch building of miniature furniture. He has served several times as a banquet lecturer, speaking on the subject of "*Humor – What Makes Us Laugh.*" He and his wife have two obese and adoring cats, Frito Lay and Taco Belle.



## NEWS ATOMS—*Alan Warren*

**James Shorter**, assistant professor in the department of biochemistry and biophysics at the University of Pennsylvania, received the Michael S. Brown new investigator award, which recognizes emerging faculty engaged in innovative discoveries. His independent research is focused on mechanisms affecting amyloid structures, with potential significance for diseases like Alzheimer's and Parkinson's.

### DEATHS

**Nicholas B. Horsky**, retired chemist, March 15<sup>th</sup> at 89. He worked for Sun Oil Company for 44 years and retired in 1984.

**Arthur T. Polishuk**, retired research chemist, March 22<sup>nd</sup> at 96. He served as a radar officer in the US Army during WWII and then became an instructor in the Army Reserve Command & General Staff College, retiring in 1969 as a lieutenant colonel. He was employed by Sun Oil Company where he conducted research in lubricating greases, and obtained 18 patents. He also authored a book on the history of lubricating greases and was a fellow of the National Lubricating Grease Institute.

---



**Middle Atlantic Regional Meeting (MARM) Board at the New Orleans National Meeting**

From left to right: Frank Romano, Board Sec'y, NY; Guenter Niessen, So. Jersey; Martha Hollomon, Board Chair, DE; Mike Doyle, Chem. Soc. Wash.; Don Weser, West. MD; Paul Smith, MD; Bill Suits, No. Jersey; Stephanie Watson, MD; Tony Addison, Phil; Louise Lawter, Princeton; Don Clarke, NY; Richard Palmer, RM SubComm liaison, NC; Don Mencer, Board Treas., Susq. Valley.

## 2009 ACS FELLOW DR. MADELEINE M. JOULLIÉ

The American Chemical Society Fellows program was initiated to recognize members of the ACS for outstanding achievements in and contributions to Science, the Profession, and the Society. In our opinion, Madeleine M. Joullié exemplifies all of these aspects with respect to her professional career and personal dedication and as such is the perfect candidate for this honor.

All who know Madeleine are well aware of her dedication to the profession demonstrated by her distinguished accomplishments in teaching and research activities. Madeleine has long been concerned with the ‘employability of students even after they leave the sheltered academic environment.’ To address this issue Madeleine took on a leadership role as a founding member of the group that developed the Professional Employment Guidelines of the ACS. The guidelines offer a broad spectrum of recommended practices in employment for professional scientists and their employers and are intended to foster productive working relationships between chemical professionals and their employers. Madeleine has also been involved with the advancement of minorities (especially women) into the chemistry profession. In recognition of her high level of commitment, she was presented the ACS Award for Encouraging Women into Careers in the Chemical Sciences sponsored by The Camille and Henry Dreyfus Foundation, Inc. which recognizes individuals who have significantly stimulated the interest of women in chemistry, thereby promoting their professional development. Madeleine’s dedication, values and scientific rigor have motivated her students and peers alike and have made perpetual impact on the entire scientific community.

Specifically with respect to her research activities, Madeleine has made original and important significant contributions to synthetic, heterocyclic and natural products chemistry. Her early pioneering efforts in exploring the chemistry of ketene and ketene-sulfur dioxide set the foundation for innovative chemistry all over the world leading to numerous discoveries and formulated the basis for synthesizing a wide variety of biologically active molecules. Her elegant work in the area of tetrahydrofuranoid natural products manipulating carbohydrates as starting building blocks led to the total synthesis of many natural products such as muscarine furonormycin, ascofuranone, geiparvarin and asochlorin. Madeleine is well respected as a researcher in the scientific community both in this country and abroad. In honor of her many scientific accomplishments, Madeleine received the Arthur C. Cope Senior Scholar Award that recognizes and encourages excellence in organic chemistry. Her efforts have strongly influenced the science of organic chemistry through years of excellent teaching and commitment to graduate and undergraduate education and outstanding service to the chemical community.

Madeleine is not only an excellent educator and researcher; she is a wonderful role model for her abundance of service to the chemistry profession and specifically the American Chemical Society. Her service to the ACS started over 50 years ago when she was elected as alternate councilor for the local Philadelphia Section of the ACS. She has continued to be very involved throughout the years often holding several positions at one time. Her service to the local Philadelphia Section includes participation as Councilor, Director, Program Committee Chair as well as Chair of the Section. As a

result of her dedication, Madeleine was awarded the Philadelphia Section Award which recognizes an individual, “who, by conspicuous scientific achievement through research, has made important contributions to human knowledge and thereby aided the public appreciation of the profession.”

Of course Madeleine’s dedication does not allow her to stop at just local section participation but she extends her involvement to the National ACS and global chemistry profession. She has served on numerous national committees for the ACS including Council Policy Committee, Committee on Committees, Committee on Professional Relations, and Committee on Chemical Education. Most recently Madeleine served as Director, District III of the ACS Board of Directors.

Madeleine is a long-standing member of the American Chemical Society who has made significant accomplishments and contributions to the chemical community in the US as well as abroad. Her tireless efforts as a leader, researcher, educator and mentor in promoting chemical science make her a role model to chemists in many generations.



### **Vacuum Inlet Traps**

Because vacuum pumps don't grow on trees.



### **Oil Filtration Systems**

Because a really old, really healthy vacuum pump is a beautiful thing.



### **Oil Mist Eliminators**

Because no one wants to eat oily mist.



**PRODUCTS**

*A Division of Mass-Vac, Inc.*

247 Rangeway Road ■ PO Box 359 ■ North Billerica, MA 01862  
978 667 2393 Fax 978 671 0014 sales@massvac.com www.massvac.com



# CHEMICAL CONSULTANTS NETWORK

## MAY 8, 2013 Meeting

Visit our website at [www.chemconsultants.org](http://www.chemconsultants.org)

**Date & Time:** Wednesday, May 8<sup>th</sup>, at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

### *Hydraulic Fracturing ("Fracking") Boon or Bane?*

**Abstract:** The United States quest for energy from carbonaceous sources continues unabated into the 21 century. With more than 300 million vehicles on our roads, the daily demand for fuel has placed a tremendous burden on traditional methods of oil and gas extraction, development and processing. New developments in drilling technology and computer modeling over the past decade have revolutionized these techniques, making previously inaccessible shale gas resources available for extraction. To put this complex technology into relative perspective, the speaker will examine a brief history of how we arrived at this juncture with respect to the Marcellus Shale; chemicals involved in fracking fluids and implications for our environment; chemical information associated with them or the lack thereof; chemical engineering challenges, particularly those associated with water resources (surface, and groundwater); and surface impoundments. In addition, the speaker will discuss the political environment surrounding the application of this unconventional fracking technology, primarily focusing on Pennsylvania and New York where the Marcellus Shale play is the largest in the United States, and the potential consulting opportunities for chemist and chemical engineers.

**Biography:** John J. Brennan is a resident of Hilltown Township in Bucks County, Pennsylvania. He earned his MS in Chemistry from St. Joseph's University, under the direction of Dr. George Nelson and Dr. George Beichl. In 1968 he joined the Research Division of Rohm and Haas in the Agrochemical Research department. He joined the Health Products department developing and filing an NDA for an antipsychotic drug for the treatment of schizophrenia in 1973. The Employee Health department eventually evolved into the Corporate Environmental in 1990 where he managed the implementation of a computer based plant integrated information management system. He left in 1995 after 27 years to become an independent chemical professional working as a consultant for such companies as ConEdison and other local environmental firms. In 1998 he joined the Porter Instrument Company as the chemical health and safety manager. The company was sold to Parker Hannifin Corporation in 2005. He left Parker-Hannifin in 2008 and returned to independent consulting with InfoChem Systems, LLC.

**Location:** The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. Please park in lot if space is available; otherwise park on Trevor Lane. If lost, call the club at 610-667-4524, ext. 2. [MAP](#)

**Reservation:** To make or cancel a dinner reservation, e-mail [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or call the ACS office at (215) 382-1589 (leave message on voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is \$25 by the deadline, Thursday, May 2 \$35 afterwards. Late reservations and walk-ins subject to availability. No-shows will be invoiced. Please advise of any special food requirements. There is no charge for talk only; registration is suggested using contact information above.

Please note that CCN is transitioning towards an electronic payment system for dinner/meeting reservations, website renewals and voluntary dues payments, which will be launched in 2013. We will notify members when the system is ready for use, and the appropriate reservation system to use.

## REPORT FROM ACS COUNCIL, APRIL 2013—*Tony Addison*

Council met in New Orleans on April 10<sup>th</sup>. Our Section was represented by the (mostly) smart and good-looking Councilors in the accompanying pictures. The meeting attendance was over 15,500, including about 6,000 students; 11,232 papers were presented.

Four candidates were presented for the 2014 President-Elect post, and Council selected Bryan G. Balazs and Charles E. Kolb for the Fall election slate. There will also be candidates for Directors-at-Large to choose amongst.

The Society's financial position is fundamentally sound, and appears to be improving generally vs. the difficult period following the 2008 turndown.

A petition was presented to Council to change the By-Laws regarding candidates for the Presidency. The overall intention was to make the job of the Committee on Nominations and Elections (N&E) a little easier, by allowing them to advance two names as candidates for President-Elect. However, we knew before the discussion of this petition started that there was an opposing viewpoint, favoring the current procedure, whereby N&E presents four nominees to Council, and Council selects two for candidacy. The rationale for the latter viewpoint was that reducing the field to two candidates would remove the ability of Council to hear presentations from four nominees and make a choice based on their own perceptions, thus diluting the influence of Council. It was anticipated that there could be a long discussion. However, the two sides presented their views fairly efficiently, and Council moved quite quickly to a vote, the petition failing and the current mode being retained by a surprisingly high margin of 15% to 85%.



Philadelphia Section Councilors with ACS president Marinda Wu at the spring National meeting in New Orleans (left to right): Ella Davis, Deborah Cook, Dr. Wu, Anthony Addison, Judith Summers-Gates, Peter Wade, Kathleen Shaginaw, Melissa Cichowicz, Judith Currano, Rick Ewing.

The ACS Board of Directors has formed a group to look at the financial outcomes of National Meetings. As a consequence, the continual site selection activity of the Meetings & Expositions committee has been put on hold for a year. A goal of the Board is to have the National Meetings generate significant surpluses for the Society, which over the last few years, they have not regularly done. It's not clear how this might be achieved, though actions such as eschewing less-accommodating cities (of which ours is one), raising the registration fee and moving to only one National Meeting per annum are possibilities that likely will not be ignored. We were reminded of the small contribution that membership fees make to the overall budget, which is largely publications-driven.

Society membership is rather volatile, with annual gains and losses each around 24,000. Suggestions for member retention and recruitment are always discussed, and collaborations with foreign chemical societies are being generated.

There was brief discussion of the "Breslow Report" [http://portal.acs.org/portal/PublicWebSite/about/governance/CNBP\\_031603](http://portal.acs.org/portal/PublicWebSite/about/governance/CNBP_031603)) on PhD programs in the US, which may lead to interesting outcomes over the next few years. In addition, it is to be noted that at the Fall Meeting (Indianapolis, September), there will be a special discussion on safety in academic laboratories, which I suspect might lead to some perceptible consequences for ACS-Certified Chemistry degree programs.

Experts in Vacuum for Science

# No More Oil Changes!

## New oil-free vacuum pumps for kilo labs & pilot plants

- Low service costs & downtime
- Programmable control options
- Chemical-resistant flow path

**Download our whitepaper!**



VACUUBRAND, INC.  
Tel (888) 882-6730

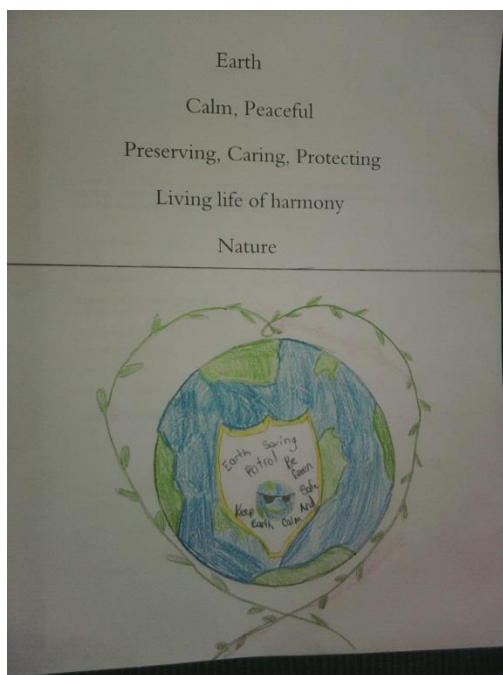
[www.vacuubrand.com](http://www.vacuubrand.com)  
[info@vacuubrand.net](mailto:info@vacuubrand.net)



## CHEMISTS CELEBRATE EARTH DAY

Here are the local winning entries for the CCED ACS National contest:

### Grades 3-5



Rachel Huang, 5th Grade, Bridge Valley Elementary School, Furlong, PA. Teacher: Miss Teeter.

### Grades 6-8



Taniyah King-Pulliam, 8<sup>th</sup> Grade, LEAP Academy University Charter School, Camden, NJ. Teacher: Ms. Ashley Holmes.

### Grades 9-12



Emily Levine, 10<sup>th</sup> Grade, Conestoga High School, Berwyn, PA. Teacher: Dr. Jean Michelcic.

THE AMERICAN CHEMICAL SOCIETY PHILADELPHIA SECTION

in association with

THE PENNSYLVANIA BIOPHARMA NETWORKING GROUP  
(PABPNG)

Is co-hosting a SUMMER NETWORKING EVENT

Tuesday, June 4, 2013

6:00 PM to 9:00 PM

Bowman's Tavern

1600 River Road

New Hope, PA 18938

Come and network with your fellow ACS members as well as scientific, engineering and business personnel from the biopharma and life science industries in the Greater Philadelphia Area as we continue this exciting series of networking events in the Delaware Valley! We've teamed up with PABPNG to provide you with another great, informal and easy-going event, and you may be surprised at what you'll discover and how you can help others, too. Please join us!

Free to all ACS members and PABPNG members from all regions.

Bowman's Tavern is located on River Road (PA Route 32) in beautiful New Hope, PA on the scenic banks of the Delaware River. It is readily accessible from I-95, I-295, I-276 (the Pennsylvania Turnpike), US 1, US 202 and US 206. Plenty of free parking is available at Bowman's Tavern.

For further information and to register for this free event, please visit <http://acsphilly-pabpng-summer-networking-event.eventbrite.com/>.

**S U R P R I S E**

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.



## GEORGE WASHINGTON CARVER AWARD

Dr. Sharon L. Haynie, a member of the Philadelphia Local Section, received the 2013 George Washington Carver Award. Each year the Committee bestows this honor on an individual who has had a great impact on the lives of future scientists. This award symbolizes that same intense dedication and creative genius exhibited by Dr. Carver in his constant quest to advance the cause of humanity as a scientist, inventor, sculptor, musician, educator, and a great humanitarian.

Sharon works for the DuPont Company at the Experimental Station in Wilmington, DE. For most of her 28 years there she has been in the Central Research & Development Department. She has served brief appointments as an adjunct professor of chemistry at Delaware State University and the University of Delaware.

For 10 years, Sharon served as a summer research mentor for 12 high school interns through ACS Project SEED. Several of those students have gone on to great careers in the science and technology sector.

Beyond science service, Sharon enjoys volunteer work that strengthens individuals and improves the urban community where she lives. Over four decades these activities have been diverse and have ranged from serving as a Girl Scout leader, Big Sister mentor, neighborhood representative on community police advisory board, a tree tender, science textbook reader for the Blind and Dyslexic, and tutoring adults with basic literacy needs.

The full article about Sharon that appeared in *The Carver Chronicle* in the March 2013 issue can be found on the Local Section website on the Awards page at: <http://philadelphia.sites.acs.org/awards.htm>.

Judy Summers-Gates, another member of the Philadelphia Local Section, received the George Washington Carver Award in 2012.

Judy currently works at the FDA Philadelphia District Laboratory where she has been an analytical chemist for more than 20 years. She has distinguished herself as an expert in the isolation and identification of colorants and additives in foods, drugs, cosmetics, and medical products.

Judy is a frequently requested speaker for “Career Days” and on the ACS Tour Speakers circuit. Judy is part of the “Kids in Chemistry,” “Chemist in the Classroom” and “Chemistry Ambassador” programs. Annually she serves as National Chemistry Week coordinator and Chemists Celebrate Earth Day coordinator. Judy frequently engages in outreach and demonstration activities with participants of all ages.

Some of Judy’s other activities and affiliations include Career Peer Mentor to young Chemists, Mentor to ACS minority Scholars and encouraging girls to enter STEM with the PA STEM

Girls Collaborative. Judy recently became a member of the White House Disability Discussion Group and is a former member of the Philadelphia Mayor's Commission on People with Disabilities and an Advisory Council Member of PA School for the Deaf. She is also a member of the National Science Foundation Advisory Group to Broaden Participation of Underrepresented Minorities in STEM. Judy has served as a judge at the Carver Science Fair for more than 10 years.

The full article about Judy's winning of the award in 2012 that was in the March 2012 issue of *The Carver Chronicle* can be found on the local section website on the Awards page at <http://philadelphia.sites.acs.org/awards.htm>.



**Dr. Sharon L. Haynie receiving her Award.**



**Judy Summers-Gates receiving her Award.**

## **Resolutions of Interest Passed by the Pennsylvania House of Representatives**

### **Recognizing the month of March 2013 as “National Women’s History Month” in Pennsylvania.**

WHEREAS, American women of every race, class and ethnic background have made historic contributions to the growth and strength of our nation in countless recorded and unrecorded ways; and WHEREAS, American women have been leaders, not only in securing their own rights of suffrage and equal opportunity, but also in the abolitionist movement, the emancipation movement, the industrial labor movement, the civil rights movement and other movements, especially the peace movement, which help create a fair and just society for all; and WHEREAS, Generations of women throughout American history have used their intelligence, imagination, sense of wonder and tenacity to make extraordinary contributions to the science, technology, engineering and mathematics (STEM) fields; and WHEREAS, Despite these contributions, the role of American women in history has been consistently overlooked and undervalued in the literature, teaching and study of American history; and therefore be it

RESOLVED, That the House of Representatives recognize March 2013 as “National Women's History Month” in Pennsylvania and invite the women, men and children of this Commonwealth to continue to explore the critical economic, cultural and social roles women played and continue to play in every sphere of life in this Commonwealth and the nation by constituting a significant portion of the labor force working inside and outside the home, to explore the contributions of women to help empower the entire Commonwealth and the nation and to celebrate “National Women’s History Month” in 2013 with the theme “Women Inspiring Innovation Through Imagination: Celebrating Women in Science, Technology, Engineering and Mathematics.”

### **Recognizing the week of April 14, 2013, as “STEM Initiative Week” in Pennsylvania.**

WHEREAS, The House of Representatives recognizes the importance of the STEM Education Coalition in promoting initiatives for effective education in science, technology, engineering and mathematics; and WHEREAS, The STEM Education Coalition has made it their mission to inform Federal and State policymakers on the importance of the role that STEM education plays in the innovative competitiveness and future economy of the United States; and therefore be it

RESOLVED, That the House of Representatives recognize the week of April 14, 2013, as “STEM Initiative Week” in Pennsylvania in order to highlight the value of the STEM Education Coalition’s endeavors to encourage quality education in science, technology, engineering and mathematics; and be it further RESOLVED, That the House of Representatives urge all educators, business people, legislators and individuals in this Commonwealth to work together to increase awareness of the value of a solid STEM education so that in the future this Commonwealth can maintain a strong work force of qualified professionals, retain our standing as innovators and stimulate the economy.

The full resolutions can be found on the Announcements page of the Philadelphia Local Section website at <http://philadelphia.sites.acs.org/announcements.htm>.

## 648<sup>th</sup> BOARD OF DIRECTORS' MEETING

Thursday, March 14, 2013

University of Pennsylvania, Philadelphia, PA 19104-6323

Present: David J. Cichowicz, Deborah H. Cook, Steven Fleming, Alan Heldon, John (JP) Northrop, Kathleen Shaginaw, Judy Summers-Gates, Denise Thomas, Melissa Betz Cichowicz, Douglas Hausner, Cynthia Palmer, Kathie Lysko, Thomas S. Straub, Ella Davis, Anne DeMasi, Rick Ewing, Victor J. Tortorelli. James Tarver and William Smith

Also: Elisabeth Harper, Carol Jean Bruner and Joe Martino.

Excused: Christie McInnis

The meeting was called to order by JP Northrop at 4:00 p.m.

1. It is requested that the roster of Board Members present at the February 2013 minutes be corrected to reflect that Anne DeMasi was present for the February Board meeting. The February minutes, so revised, were approved with one abstention and no nays.

### 2. Committee Reports

A. Career Services Workshop J. Martino [acsphillycareerservices@gmail.com](mailto:acsphillycareerservices@gmail.com)

An event, in conjunction with Pa. Biopharma Group, is planned for June 4, 2013 at Bowman's Tavern on the River Road south of New Hope. Time and particulars to come.

ACS National is hosting an Entrepreneurial Summit at the Chemical Heritage Foundation on March 27<sup>th</sup> and 28<sup>th</sup>. Registration deadline is March 4<sup>th</sup>. As of today's meeting's date only five persons have signed up.

The historical focus of Career Services has been industrial employment and layoffs. Career Services is planning to add an additional workshop to address the needs, especially the employment needs, of recent graduates.

### 3. Officer's Reports

A. Past Chair Rick Ewing

Report on ongoing revisions to the Section's Bylaws. The bylaw requirements to define and empower an Executive Committee were discussed. Further, general changes to the bylaws that ACS National wants were discussed. These include consistency of usage of names and capitalizations.

Discussed language needed in Awards section to include the listing of our three teachers awards.

Discussed the language to be included in the bylaws to define and empower our internal audit function. It was agreed that auditors must be independent and not involved in the delegation and distribution of funds. Specifics regarding the Audit Committee's role should be developed for the Section's Work Manual. It was agreed that the Audit Committee would consist of the Section's Secretary and two additional Board members, and that the Secretary would serve as Chair of the Audit Committee. Additional suggestions concerning the Audit Committee should be submitted by April 1, 2013.

While just getting started, the Section's Work Manual is being reviewed and revised.

There is a need to expedite our bylaw review as it is due 18 months from October 17<sup>th</sup>. Suggestions and revisions to the bylaws draft should be returned to R. Ewing as soon as possible.

B. Chair JP Northrop [John.northrop@anton-paar.com](mailto:John.northrop@anton-paar.com).

No report

C. Chair-Elect S. Fleming [sfleming@temple.edu](mailto:sfleming@temple.edu).

1. Awards:

Work on the Section's Annual Teachers Awards is ongoing.

There is nothing to report concerning either the Ulyot Lecture or Edgar Fahs Smith Lecture at this time.

MARM College and High School Awards are on schedule. Deadline: March-31<sup>st</sup>.

D. Secretary A. Heldon [alanheldon@comcast.net](mailto:alanheldon@comcast.net)

No report

E. Treasurer D. Cichowicz [cichowic@lasalle.edu](mailto:cichowic@lasalle.edu)

The Section is in receipt of a check from ACS National for the Section's commission for new members.

The Section's investments and finances are in good shape at this time.

The Treasurer's Report was submitted and approved with no nays and no abstentions.

4. Other Business

A. Bill Smith

1. The Science Carnival is scheduled for Saturday, April 20<sup>th</sup>. Preparations are on schedule for the event and no help is required.
2. The Nocera Lecture at Villanova University on April 24<sup>th</sup>, is for high school students. Better high school contact address lists are needed for this event and Chemagination. We need to develop a master high school contact list, including email addresses, which can be shared by everyone in the Section needing to contact high school students. A master list would encompass Chem. Olympiad and Science Fair projects.
3. MARM Chemagination Contest deadline is March 15, 2013. Judy Summers-Gates and Bill Smith will co-chair with Deb Cook as a third co-chair. Students are invited to submit articles describing what our world will be like in 25 years. Twenty readers are needed to read and review about 20 student articles at about 1000 words each.
4. Regional ACS High School Chem. Clubs meetings will definitely be this year or next.

B. K. Shaginaw [katt@verizon.net](mailto:katt@verizon.net).

1. The spring PAGES<sup>TM</sup> event (6<sup>th</sup> grade girls) is scheduled for March 23, 2013 at Chestnut Hill College. Arielle Webster, a recent graduate of Juniata College in Wildlife Conservation and an educator at the Academy of Natural Sciences of Drexel University, is the keynote speaker. ([www.PAGESprogram.org](http://www.PAGESprogram.org))



2. In celebration of Women's History Month, the Chemical Heritage Foundation is a sponsor of a special program at the WHYY studios on Wednesday, March 27<sup>th</sup> at 7:00 pm. The CHF recent film "Women in Chemistry" will be followed by a panel discussion with Mary Lowe Good and Uma Chowdhry.

C. D. Cook [deborahcook72@gmail.com](mailto:deborahcook72@gmail.com)

A Swedish chemist is interested in investigating high school-higher education collaborations. Any insights, interest, input?

As there was no additional business, a motion to adjourn was approved at 5:06 p.m.

Philadelphia Section email: [PhilaACS@aol.com](mailto:PhilaACS@aol.com)

Respectfully submitted,

Alan R. Heldon

Secretary

[alanheldon@comcast.net](mailto:alanheldon@comcast.net)

## *DIRECTORY OF SERVICES*

**RELIABILITY**

↑ ↑ ↻ Express Lane

**Take The Express Lane To Reliable GPC Performance**

**EcoSEC® GPC System**

- Time & solvent saving low volume fluidics
- Temperature controlled high precision pumps
- Continuous purging RI detector reference cell for rock-solid baseline stability

Customer service: 866-527-3587

Tosoh Bioscience and EcoSEC are registered trademarks of Tosoh Corporation.

**TOSOH BIOSCIENCE**  
[www.tosohbioscience.com](http://www.tosohbioscience.com)

**TOSOH**

# DIRECTORY OF SERVICES



PROFESSIONAL EDUCATION



## Spend 2-5 days at MIT this Summer in Short Programs for Professionals

- Formulation / Biotherapeutics
- Controlled Release Technology
- Downstream Processing
- Fermentation Technology
- Flow Chemistry
- Cybersecurity
- Data Management
- Game Development
- Innovation
- Manufacturing
- Radar / Robotics

Learn more: [shortprograms.mit.edu/chem](http://shortprograms.mit.edu/chem)



## Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION  
MORPHOLOGY CHEMISTRY STRUCTURE

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

Registered with FDA • DEA GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE. 19805

Voice 302-998-1184, Fax 302-998-1836

E-Mail [micronanalytical@compuserve.com](mailto:micronanalytical@compuserve.com)

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



## 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, TGA, melting point

KF Aquametry, Titrimetry

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

[www.robertson-microlit.com](http://www.robertson-microlit.com) • email: [results@robertson-microlit.com](mailto:results@robertson-microlit.com)

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

## 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 Catalyst. 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](http://www.mboservices.net)

## NMRService 500MHz

\*Mass

\*Elemental Analysis

**NuMega Resonance Labs**

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

## ADVERTISING INDEX

ACS	103, 110
Mass-Vac, Inc.	98
Micron Inc.	110
MIT Professional	110
NuMega Resonance Labs, Inc.	110
Roberston Microlit Labs	110
Tosoh Bioscience LLC	109
Vacuubrand, Inc.	101

Advertising: Vince Gale, MBO Services, P.O. Box 1150, Marshfield, MA 02050; phone: (781) 837-0424  
email: [vincegale@mboservices.net](mailto:vincegale@mboservices.net)

**PHILADELPHIA SECTION, ACS  
CURRENT CALENDAR OF ACTIVITIES**

Date	Event	Location
Wednesday, May 8	Chemical Consultants Network: John J. Brennan, InfoChem Systems, LLC: <i>Hydraulic Fracturing ("Fracking") Boon or Bane?</i>	The Cynwyd Club Bala Cynwyd, PA <a href="http://www.chemconsultants.org">www.chemconsultants.org</a>
Thursday, May 9	The Joseph Priestley Society Symposium: <i>Nanotechnology: Discovery and Commercialization</i> . Keynote: Karen I. Winey, University of Pennsylvania: <i>Nanotechnology in the Philadelphia Region</i>	The Chemical Heritage Foundation Philadelphia, PA <a href="http://www.chemheritage.org">www.chemheritage.org</a>
Monday, May 13	Delaware Valley Mass Spectrometry Discussion Group Vendors Meeting: Fred Regnier, Purdue University: <i>RAPID TARGETING OF STRUCTURE IN COMPLEX MIXTURES; Recognizing Disease Through Molecular Signatures</i>	Villanova Conference Center Radnor, PA (NOT on the Villanova Campus) <a href="http://science.widener.edu/svb/msdg/">http://science.widener.edu/svb/msdg/</a>
Monday, May 13	Science on Tap	National Mechanics Philadelphia, PA <a href="http://www.chemheritage.org">www.chemheritage.org</a>
<b>Thursday, May 16</b>	<b>Teaching Awards for Middle Atlantic Region Board and Philadelphia Section: Tom Barton, President-Elect, ACS: Many Problems, but Few Solutions, for K-12 Education</b>	<b>Drexel University Philadelphia, PA <a href="http://philadelphia.sites.acs.org">http://philadelphia.sites.acs.org</a></b>
Thursday, May 23	Philadelphia Organic Chemists Club: Uttam K. Tambar, UT Southwestern Medical Center: <i>Catalytic Asymmetric Molecular Rearrangements</i>	Chemistry Department University of Pennsylvania Philadelphia, PA <a href="http://www.pocclub.org">http://www.pocclub.org</a>
Tuesday June 4	Career Services Committee and PA BioPharma Networking Event	Bowman's Tavern New Hope, PA <a href="http://acsphilly-pabpng-summer-networking-event.eventbrite.com">http://acsphilly-pabpng-summer-networking-event.eventbrite.com</a>
Monday, June 10	Science on Tap	National Mechanics Philadelphia, PA <a href="http://www.chemheritage.org">www.chemheritage.org</a>
Wednesday, June 12	Chemical Consultants Network: <i>Annual Open Forum</i>	The Cynwyd Club Bala Cynwyd, PA <a href="http://www.chemconsultants.org">www.chemconsultants.org</a>
<b>Thursday, June 20</b>	<b>Luncheon Honoring Our Fifty-year Members: Larry Horwitz, Iron Hill Brewery</b>	<b>Iron Hill Brewery Chestnut Hill, PA</b>
<b>September 8-12</b>	<b>246<sup>th</sup> ACS National Meeting</b>	<b>Indianapolis, IN</b>
<b>Thursday, September 19</b>	<b>Philadelphia Section Meeting TBA</b>	<b>TBA</b>
<b>Thursday, October 17</b>	<b>Philadelphia Section Award</b>	<b>TBA</b>
<b>Thursday, November 21</b>	<b>Ulliot Public Affairs Lecture: Joe Palka, National Public Radio</b>	<b>Chemical Heritage Foundation Philadelphia, PA</b>
<b>Saturday, December 14</b>	<b>Chemical Demonstrations and Hands-on Activities for Children of all Ages</b>	<b>TBA</b>