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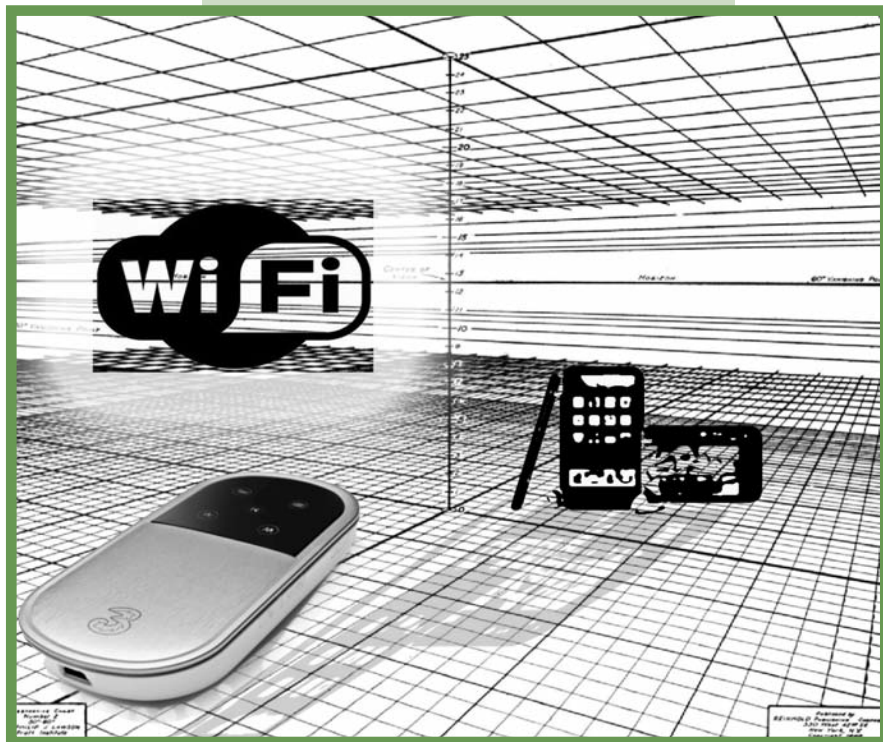
JANUARY 2013

Volume 80/1

Bulletin

ACS Networking and Technology Happy Hour

Thursday, January 17, 2013



Seasons Pizza
Concord Pike, Wilmington, DE
5:30 to 7:30 p.m.



For information on section activities visit our web site
<http://del.acs.sites.acs.org/>

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CHAIR'S COLUMN

Happy New Year! I am looking forward to another exciting year for the Delaware Section of the American Chemical Society. As my first act as chair, I must thank Andrea Martin for her service as chair last year. She did an excellent job and we appreciate her service to the section. During her upcoming term as past chair she will be leading our efforts on developing a presentation to introduce the state's high school teachers to all the opportunities and materials that the ACS has to offer both teachers and students. We are excited to further engage this portion of membership.

I will be attending the ACS National Leadership conference later this month and look forward to learning more about the mechanics of running a local section. It is my goal to bring our section in-line with many of the other local sections by updating our by-laws to include electronic balloting. I would like to increase participation in our section meetings by offering a variety of programming and activities starting with our January meeting.

We will be kicking off the year with a Happy Hour at Seasons Pizza, 3901 Concord Pike Wilmington, DE 19803, January 17th at 5:30 -7:30 pm. There are several reasons to attend this event:

1. Tell us what type of activities and programming you would like to see this year
2. Network with fellow members
3. Bring your Wi-Fi devices for hands on tutorials on the ACS network to follow up from our November meeting

For those that are unable to attend, a short electronic survey about the section will arrive in late January or early February. Please take the time to fill it out. The Delaware Local section is here because of and for you. You are always welcome to provide feedback to any of the executive committee members throughout the year. Our contact information is available in this issue and online at <http://delacs.sites.acs.org/>.

I look forward to serving you this year.

Tiffany

CHEMVETS

TOPIC: Proteomics in the Diagnosis and Treatment of Alzheimer's Disease

SPEAKER: Kelvin H. Lee is Gore Professor of Chemical and Biomolecular Engineering at the University of Delaware and is Director of the Delaware Biotechnology Institute

DATE: January 15, 2013

PLACE: DuPont Chestnut Run Laboratories

TIME: 12:00 Noon Lunch
(Bldg. 700 Administration Bldg.)
1:00 Lecture (Bldg. 713 auditorium)



INFORMATION:

George Parshall (658-2066; parshallgw@aol.com)

BIOGRAPHY:

Kelvin H. Lee received a BSE in Chemical Engineering from Princeton and PhD in Chemical Engineering from Caltech. Previously, he was on the faculty at Cornell University where he held the titles of: Samuel C. and Nancy M. Fleming Chair Professor, Professor in the School of Chemical and Biomolecular Engineering, Director of the Cornell Institute for Biotechnology and Director of the New York State Center for Life Science Enterprise. His research interests include: the diagnosis and treatment of Alzheimer's and Parkinson's disease, the production of protein-based therapeutics and the development of technologies for protein analysis. He is a Fellow of the American Institute for Medical and Biological Engineering and a Fellow of the American Association for the Advancement of Science.

ABSTRACT:

There is significant interest in the identification of antemortem biomarkers for the diagnosis of Alzheimer's disease. Using a traditional gel-based proteomics approach, we identified a panel of cerebrospinal fluid proteins that shows promise for the assessment of Alzheimer's patients and are developing MRM assays for these markers. These markers also show utility in the longitudinal assessment of Alzheimer's patients undergoing immunotherapy. A shotgun proteomics analysis of patients undergoing immunotherapy identifies proteins that may provide useful information on mechanism of action.

NEXT MEETING:

March 19, 2013, Speaker undetermined

ACS Networking and Technology Happy Hour

1. Provide input to the executive committee on future events
2. Network with fellow members
3. Bring your Wi-Fi devices for hands on tutorials on the ACS network and Section Website

Date: **Thursday, January 17th, 2012**

Time: 5:30 - 7:30 pm

Location: Seasons Pizza, 3901 Concord Pike Wilmington, DE 19803

Cost: FREE

Pizza will be provided.

Soft drinks and alcoholic beverages will be available for cash or charge at the bar.

Please register so that we can have enough food.

Registration:

1. Use the link provided on the section website, <http://delacs.sites.org>, or in the Del-Chem Bulletin distribution announcement to register online.
2. E-mail delawareacs@gmail.com to receive a link to online registration

Members who are unable to register online should call Tiffany Hoerter at 302-695-3032

Call for Nominations for Section Officers and Councilors

The Delaware Section of the American Chemical society is looking for candidates for local section officers to run in the May 2013 elections. The terms would begin January 2014. If you or someone you know is interested in running for the following positions, please contact Tiffany Hoerter at (302) 695-3032 or by email at thoerter@gmail.com. The deadline for submission of materials is March 1, 2013. The positions that are open include:

Chair Elect.....	1 year term
Director.....	3 year term
Secretary.....	1 year term
Treasurer.....	2 year term
Councilor (2 positions open).....	3 year term
Alternate Councilor (2 positions open).....	3 year term

Job descriptions can be found at:

<http://delacs.sites.acs.org/usefulfiles.htm>



The American Chemical Society celebrated National Chemistry Week from October 21-27, 2012. The theme for this year's NCW was Nanotechnology: The Smallest BIG Idea in Science. This year, we celebrated 25 years of National Chemistry Week with the topic of nanotechnology. The theme highlighted that nanotechnology is all round us and has applications to the environment, energy, materials, and health. As a proud participant in this year's activities, the Delaware Local Section hosted a Local National Chemistry Week Event at the Independence School in Newark, Delaware, on Saturday, November 3rd.

A variety of presenters were on hand to entertain and educate local scouting groups and students from across the region. More than 80 children were provided hands-on activities. The event culminated with an exciting and fun chemistry demonstration given by Mike Stemmiski of the University of Delaware.

The section would like to acknowledge the volunteer efforts of the many groups that made this year's event such a success. Local sponsors included University of Delaware, DuPont, Alpha Chi Sigma, Delaware Academy of Chemical Sciences, B&W Tek, ATK, St Mark's High School, Hagley Museum, Wesley College and Widener University.





RECYCLE TOUR

On November 10, members of the Delaware Section joined members of the Natural History Society of Delaware and the New Castle County League of Women Voters for a tour of two recycling facilities. Our first stop was at the Peninsula Compost Group Wilmington Organic Recycling Center (see <http://peninsula-compost.com>). This facility composts over 160,000 tons annually of food and yard waste. The food waste provides the nitrogen and water, while the yard waste provides the carbon; the appropriate ratio is maintained by feeding the correct amounts of each type of waste into the process. The aerobic process eliminates the generation of the greenhouse gas, methane. Odors are minimized by the use of a proprietary cover system developed by W. L. Gore and Associates. Our tour guide was Nelson Widell, co-founder of Peninsula Compost. This is the only composting operation located within any city limits, and its success is due in part to a groundbreaking community benefits agreement with the area. The finished product is bagged and sold by another local business (look for the trade-names “Vorganic” and “SureGro.”)



Nelson Widell shows the compost piles with the W. L. Gore covers



Examining the finished product

continued on page 8

RECYCLE TOUR *continued from page 7*

Our second stop was at Richards Paving Inc., which does concrete and asphalt recycling. Richard Piendak, founder, explained their ability to do on-site crushing of old concrete to provide recycled stone base for new paving. They also can do recycle-in-place and infrared asphalt repair.

Richard Piendak explains the crushing machine



Philadelphia Section ACS Career Services Committee Event Independent Employment Panel Discussion

Date: January 31, 2013
Time: 1 p.m. – 4 p.m.
Location: Montgomery County-Norristown Public Library
Event Type: Open to the Public
Fee: None
Registration: <http://acsphillycareerpaneldiscussion.eventbrite.com/>

Details:

The ACS Philadelphia Section Career Services Committee will be hosting an important panel discussion on independent employment. Our session will be packed with experts on different aspects of employment from the region. Panelists include:

- John Remmey (Aerotek)
- Michael Ferrante (YourEncore)
- Barry Rosenblatt, PhD (SME Biotech Consulting)
- William Kinney, PhD (IteraMed)

Topics to be covered include contract and contract-to-hire employment opportunities, short-term consultancy assignments, consultancy as a career and starting your own business. Our afternoon will have a moderated panel discussion with time dedicated for question and answers from you, our participants. This will be followed by a period of networking with the panelists and with each other.

This is a free event, but please register so we have an idea of headcount. The Montgomery County-Norristown Public Library is located in the heart of Norristown, Pennsylvania, the county seat of Montgomery County. The Library is readily accessible from US 202, within a short walking distance from the SEPTA Manayunk/Norristown Regional Rail line, and is near US 422, the Pennsylvania Turnpike, I-76 and I-476.

Drivers, please note: The library is located at the five-point intersection of Swede, Powell and Elm Streets in Norristown. Free, off-street parking can be found on the library's Swede Street side. There is also a convenient entrance to the library from the Swede Street parking lot which leads to the Community Room. Please see the Google Map on this website to reference.

Science Cafe

“Beers, Bubbles, and Beyond”

Date: January 9, 2013
Time: 6:30 p.m.
Location: World Cafe Live
3025 Walnut Street,
Philadelphia, PA 19104

Event Type: Open to the Public
Fee: Free
Registration: Not Required



Daeyeon Lee

Abstract:

A bubble is a globule of one substance in another, usually gas in a liquid. Bubbles can be found ubiquitously in foodstuff. Beer head, for example, is composed of bubbles of gas such as carbon dioxide, rising to the surface. Imagine drinking beer of champagne that do not have any bubbles, it just will not be the same experience. Our group is exploring a way to use bubbles, which are typically transient matter, as “materials” in biomedical and acoustic engineering applications. I will discuss examples of using stable microbubbles in ultrasound theranostics agents to detect and treat cancer and of using bubbles to generate sound cancelling panels to enable “paper-thin” sound proof systems.

Chemical Heritage Foundation Priestly Society Luncheon

“The Economic State of the Chemical Industry: A Long-Term View”

Date: January 10, 2013
Time: 11:30 a.m.–2:00 p.m.
Location: CHF 315 Chestnut Street, Philadelphia, PA 19106
Event Type: Open to the Public
Fee: \$25
Registration: Required
<http://www.chemheritage.org/visit/events/public-events/2013-01-10-jps.aspx>

This installment of the Joseph Priestley Society (JPS) lecture series will include a keynote address by T. Kevin Swift, chief economist and managing director, American Chemistry Council, who will present “The Economic State of the Chemical Industry: A Long-Term View.”

Schedule:

11:30 a.m.–12:15 p.m.	Networking reception
12:15–1:00 p.m.	Luncheon
1:00–2:00 p.m.	Keynote address

For more information about this event, please contact Sarah Reisert, awards program manager, at 215.873.8263 or sreisert@chemheritage.org.



T Kevin Swift



Happy New Year

Al Denio

2013 Already –

You start the year with a clean sheet, full of opportunities. Maybe this is the year for you to win the Perkin Medal, the Priestly Medal or a Nobel Prize. I wish you the best for all three. Or perhaps this is your year for a nice promotion or a groundbreaking patent? My goal is simple – to reach 2014 alive.

Thanks Andi –

The Delaware Section had a great year with Andrea Martin as Chair. She is pretty amazing. I recall when she held down three teaching jobs simultaneously – at U.D., Widener University and Del Tech. Luckily she now can focus on her tenured position at Widener.

The Ulliyot Lecture at CHF –

“The Future of Green Chemistry” was the title of the talk by Professor Paul T. Anastas of Yale University. He provided plenty of food for thought about the impact of chemistry on our world as we move into the future. He was introduced by Dr. Rudy Pariser, a retired DuPont chemist and former member of the Delaware Section.

Superstorm Sandy –

Luckily this storm provided just a glancing blow to Delaware. In Newark, our lights stayed on and the beer stayed cold. Northern New Jersey and New York received most of the damage. The cleanup and repairs continue, with losses in the billions. Thousands of our citizens were suddenly living in the Stone Age, without the benefit of flowing electrons to provide heat, hot water, cooked food, etc. There was no radio, TV or Internet! Many high-rise buildings in N.Y.C. had no power for elevators.

It certainly appears that climate change is upon us in a variety of ways. Perhaps in twenty years, Val and I will have beachfront

property in Newark! It remains to be seen how New York City will try to cope with the next monster storm. Protecting the city from the Atlantic Ocean will cost billions – good luck with that!

National Chemistry Week –

The Delaware Section event was held on November 3 at The Independence School. Co-chairs Kate Opper and Maggie Schooler did a fine job of organizing this popular day of fun chemistry. The Delaware Academy of Chemical Sciences did a demo of extracting the DNA from strawberries. Martha Hollomon led this activity, assisted by Loraine Snead and yours truly.

The wrap-up Chem Demo Show from 3 to 4 pm featured “Magic Mike” Stemmiski. He did the usual great performances of fire, explosions, solutions misbehaving, dry ice in the supercritical state, liquid nitrogen’s effect on flowers and balloons plus flying projectiles.

Delaware Academy of Chemical Sciences –

Elections were held for 2013. Norm Henry will continue as Vice President. Martha Hollomon will serve as Secretary; Marianne Cinaglia will be our Treasurer. I’ll continue as President.

Board members elected to serve for 2013 to 2016 include Martha Hollomon, Loraine Snead, Mike Stemmiski and Al Denio. Continuing Board members include Norm Henry, Solito Sumulong, Marianne Cineglia, Chris Petersen and Ed Wasserman. Our goal is to open a Chemistry Museum/Outreach Center in the New Year. You can help spread the Chemistry Gospel by sending your tax-deductible contributions to me at 102 Red Pine Circle, Newark 19711. Or contact me at: alvaldenio@aol.com. I look forward to your donation!

Minutes of the Executive Committee Meeting

Delaware Section of the American Chemical Society

Thursday, September 9, Phone Conference

Chair Andrea Martin called the meeting to order at 4:00 P.M.

Secretary's Report:

Changing email address seems to have cleared up roster issues. Allison Moore and Bob Coulson requested an updated address list for ChemVets. The list was updated through those born in 1953 and will be updated annually. Andrea noted that election results need to be reported by mid-October, and that the Nominations Officers Spreadsheet should be updated to include the latest election results, including the unsuccessful candidates for councilor and alternate councilor.

Treasurer's Report:

The Treasurer's Report was submitted electronically. Andrea reported for Mary Jo Bock. Correction for a ChemVet honorarium from May was made and the MARM account has been closed. She is working on getting a replacement check from an advertiser due to an error on the original check. Councilors need to submit expense accounts. Mary Jo had a query about a check from ACS National which Jeff Moore identified as the Local Section Commission for new members.

Allison Moore made a motion to accept the treasurer's report subject to audit. Norm Henry seconded the motion and it carried unanimously.

Chair's Report:

ChemVets meeting is September 18, subject is the Carbon Cycle.

The September 27 meeting theme is education, and all awardees have been confirmed. Everyone should have received an email containing a link to the announcement. Andrea will ask Lois Weyer to put a registration link on the home page as the link in the calendar goes to the home page. She is writing a press release to send to Martha Holloman and will send invitations to state officials. Andrea will send a formal invitation to the student invitees. Wesley has been added by an online vote so all four-year institutions in the state are represented. Leigh Thompson of Tower Hill is the high school teacher of the year awardee, thanks to Martha for handling that. Andrea and Martha created an application form mirroring the MARM award form to facilitate nominations for that award.

October 16 ChemVets meeting is on properties of glass.

October 23 (Mole Day) Section Meeting is a networking event at the Doubletree on 202. ACS National staff members will meet with the Executive Committee over dinner on using the ACS network for governance functions. This will be followed by an open dessert meeting where the ACS network and other social networking will be discussed. This will hopefully be free for all, definitely free for those seeking employment.

November 3 is National Chemistry Week, Kate Opper and Maggie Schooler are organizing the event.

The Ulliyot Lecture is November 15 at the Chemical Heritage Foundation; speaker is Paul Anastas of Yale, one of the founders of Green Chemistry. Andrea will be introducing the speaker.

November 20 is the ChemVets meeting.

Andrea has not heard back from Pat Todd of the Delaware Nature Society about a trip to a recycling facility on November 10.

continued on page 12

ACS Fellow nominations were unsuccessful this year. Andrea is working on a form for candidates to self-nominate as the information needed is extensive.

Nominee Dr. Mary Watson of UD received an ACS Rising Star Award.

No information was received from local colleges by the deadline for the International Student Fellowship so no nomination was submitted.

Del Chem Bulletin deadline for October is tomorrow. November-December deadline is October 5. Tiffany will handle the January issue; deadline will be in early December.

The Section did not win the ChemLuminary award at the Philadelphia meeting but John Gavenonis, Al Denio, and Martha are to be congratulated for their handling of Government Affairs.

There is no word on the Meet the ACS outreach event funding or the ACS grant submitted for the October meeting.

The Northeast Section is requesting nominations for the 2013 Esselen Award for chemistry in the public interest. The deadline is November 15.

Del Chem Bulletin finances will be the topic of the Chair's column in the November issue. The cost of hard copies could conceivably be better utilized but remaining in touch with members is important so ideas are being solicited to open a discussion of the issue.

Chair-Elect's Report:

Tiffany Hoerter met with Andrea on August 31 to begin the transfer of responsibilities and she will continue to work with her for a smooth transition. She has received a copy of the bylaws from National ACS and recommendations for updates. She will circulate the information by email after editing, please comment by email so there is a written record. Please also let her know via email if you have responsibilities other than elected duties that you do not intend to continue in the next year.

Past-Chair's Report:

No report.

Reports of Committees and Related Groups:

Awards – The teacher of the year has been selected and the runners-up are candidates for next year. Twenty-two text books have been awarded. The certificates, pins, and checks needed for the September meeting were discussed. Wesley College needs to be added to the list of colleges in the procedures, Norm volunteered to do so. The procedures for the Tillman-Skolnick and Section Awards need to be discussed due to timing issues.

Audit – No report.

Carothers – No report. Allison will forward the Call for Nominations for the 2014 award to Andrea for publication in the Del Chem Bulletin.

Council – Tiffany summarized the councilor talking points which will be posted with the minutes and will be included in the November Del Chem Bulletin. In addition the councilors will report on the committees they serve on.

Government Affairs - No report.

MARM – the accounting was reviewed and nothing was owed to the Section. The balance in the MARM account was transferred to the Section account and the MARM account was closed.

National Chemistry Week – Maggie Schooler will lead this committee for 2013. Kate will be mailing information on the contest in a few days. Cash awards for the contest were discussed. Participants are being contacted to confirm they will attend.

continued on page 13

Other committee reports:

- Alpha Chi Sigma-Delaware Valley Professional Group won the 2012 Vincent A. Sedlak Professional Chapter Award at the Biennial Conclave due to sponsoring the Adventures in Chemistry program.
- ChemVets- No report.
- Delaware Academy of Chemical Sciences. A Science Café will be held at Iron Hill in Newark. McKay Jenkins, UD Professor of Journalism, and Norm Henry are the speakers. The refinery tour is moved from September 15th to the 22nd.
- Chemists Celebrate Earth Day. Theme for next year is water. Todd will contact Hagley, and will explore other options.
- Testing. The Section will consider offering review sessions evenings or weekends for the national chemistry test to try to increase success rates for local high school students.

Old Business: Chemistry for Kids will be held on October 13 at Saint Marks for 3rd to 6th grades. Participants and volunteers were requested. Use of an e-mail mailing list was discussed. Nora will distribute the information in Pennsylvania.

New Business:

Congratulations and best wishes are extended to Lois Weyer on her retirement from ATK. The next meeting is tentatively scheduled for October 4.

The meeting was adjourned at 5:00 P.M.

Officers and Councilors Present:

Andrea Martin, Julie Brady, John Gavenonis, Tiffany Hoerter, Martha Hollomon, Allison Moore, Jeff Moore, Norm Henry, Kate Opper, Nora Radu

Officers and Councilors Absent:

Mary Jo Bock, Jade Duan, Sri Kidambi, Maggie Schooler, Lois Weyer

Others Present: Todd Brugel, Marge Christoph, Al Denio, Rakesh Nambiar

Respectfully submitted,

Julie E. Brady

In Memoriam – Dr. Sadiq Hassan Wasfi

The Section regrets to announce the death of Dr. Sadiq Wasfi on September 11, 2012. Dr. Wasfi retired as Professor of Chemistry at Delaware State University in 2010, where he taught graduate and undergraduate courses, conducted research, and mentored and inspired thousands of students over a span of 31 years. Dr. Wasfi received numerous awards and grants throughout his distinguished career, which also included positions at Basrah University (Iraq), Georgetown University (Washington, DC), and Montgomery College (Takoma Park, MD).

A native of Iraq, Dr. Wasfi received his graduate degrees in Analytical and Inorganic Chemistry from Georgetown University and did postdoctoral research at the University of Hawaii. Dr. Wasfi was also an accomplished artist and author of philosophical tracts. He is survived by his wife Ellen, a son, two daughters, and two grandsons, along with brothers and sisters and other relatives in Iraq. Contributions in his memory can be made to the Islamic Society of Delaware, 28 Salem Church Road, Newark, DE 19713 (www.isdonline.org) or to the Delaware Hospice, 911 S. DuPont Highway, Dover, DE 19901 (www.delawarehospice.org).

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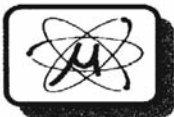
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CALENDAR OF EVENTS

January

- 1 Deadline for submission for February Del-Chem Bulletin
Science Cafe (World Cafe Live)
- 9 Beers, Bubbles, and Beyond – Daeyeon Lee
- 10 Chemical Heritage Foundation Priestly Society Luncheon
The Economic State of the Chemical Industry: A Long-Term View – T. Kevin Swift
- 15 ChemVets Meeting
- 17 Proteomics in the Diagnosis and Treatment of Alzheimer's Disease – Kelvin Lee
Delaware Section ACS Meeting
- 31 Networking and Technology Happy Hour
Philadelphia Section ACS Career Services Committee Event
Independent Employment Panel Discussion

February

- 1 Deadline for submission for March Del-Chem Bulletin
- 13 Science Cafe (World Cafe Live)
Future Water Shortages: Resolution through Science and Technology – Larry Hough
- 14 Chemical Heritage Foundation Priestly Society Luncheon
An Insider's View to the Implementation of the America Invents Act and to Practicing
before the U.S. Patent and Trademark Office – Robert L. Stoll

March

- 1 Deadline for submission for April Del-Chem Bulletin
- 8 Chemical Heritage Foundation Priestly Society Luncheon
Keynote Address by Pierre Brondeau
- 13 Science Cafe (World Cafe Live)
Liquid Crystals: An Oxymoron Necessary for Life and the Basis of Modern Displays
– Peter Collings
Pittcon
Philadelphia
- 17-21 Chem Vets meeting
- 19 PAGES™ Philadelphia Area Girls Enjoying Science™ Event
- 23

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