

the Catalyst



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Edgar Fahs Smith Memorial Collection
Shoenberg Center for Electronic Text & Image
The University of Pennsylvania Libraries

HIGHLIGHTS

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ADVANCE NOTICE

SEPTEMBER MEETING

Thursday, September 15, 2016
University of Pennsylvania

See the SEPTEMBER issue of *the Catalyst* for details,
call the Section Office at (215) 382-1589 or email PhilaACS@gmail.com.

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Comments From the Chair



Dr. Rick Ewing

On behalf of the Philadelphia Section of the American Chemical Society, I warmly welcome you to Philadelphia. This should prove to be an exciting meeting! I'm sure that you are looking forward to the presentations, posters, networking and catching-up with colleagues that will occur over the week. In addition to the National meeting, the city of Philadelphia has much to offer:

history, arts, restaurants, family destinations, such as the Philadelphia Zoo (<http://philadelphiazoo.org>) and Camden Adventure Aquarium (www.adventureaquarium.com), and science destinations such as the Franklin Institute (<http://www2.fi.edu>) and Academy of Natural Sciences of Drexel University (www.ansp.org). As well, Philadelphia offers a rich history to explore, dating back to its founding in 1682 by William Penn, which includes its prominent role in the American Revolution as a meeting place for the Founding Fathers of the United States, who signed the Declaration of Independence in 1776 and the Constitution in 1787. I also want to highlight two real treasures that are here in Philadelphia. The Chemical Heritage Foundation (www.chemheritage.org) has large collections that document the history of chemistry in instruments, books, photographs and fine art. CHF is a short distance from the convention center and a visit is highly encouraged! As well, the University of Pennsylvania holds the Edgar Fahs Smith Collection which documents the History of Chemistry (much before 1850) which can be viewed in person or at: <http://sceti.library.upenn.edu/sceti/smith/>. The Edgar Fahs Smith Memorial Collection has been designated a National Historic Chemical Landmark by the American Chemical Society. Please visit the local section booth near the registration booth in the Convention Center with any questions that you have about the city and venues. Enjoy the meeting and my hopes are that you get to enjoy the city of Philadelphia and all that it offers.

NEWS ATOMS—Alan Warren

Benjamin Garcia, professor of biochemistry and biophysics at the University of Pennsylvania's Perelman School of Medicine, received the 2016 Protein Science Young Investigator award. The honor recognizes someone who has made an important contribution to the study of proteins within the first eight years of an independent career.

Marsha Lester of Penn's department of chemistry was elected to the National Academy of Sciences.

Jessica Anna, assistant professor of chemistry at Penn, received a 2016 Early Career award from the US Department of Energy.

Judith Currano, head of Penn's chemistry library, received the 2016 Rose L. Vornelker award of the Special Libraries Association in recognition of her advancing the development and knowledge of those engaged in the study of chemistry.

Stan Najmr, graduate student in chemistry, received a Penn Prize for Excellence in Teaching by graduate students.

Recently retired faculty at Penn include **Sherrill Adams**, professor emerita of biochemistry; **Eduardo Glandt**, professor emeritus of chemical and biomolecular engineering; and **Larry Sneddon**, professor emeritus of chemistry.

DEATHS

Grant R. Krow, emeritus professor of chemistry, March 26, 2015 at 73. He taught organic chemistry at Temple for 42 years and authored over 100 scientific papers.

William G. Carson, retired chemical engineer, November 23, 2015 at 92. He worked at the Bristol plant of Rohm and Haas for most of his career.

Yun-Long Li, medicinal chemist, April 20, 2016 at 47. He worked for DuPont Pharmaceuticals and then Bristol-Myers Squibb before joining Incyte where he was senior director of chemistry. He was the key inventor of several clinical drug candidates and co-inventor of 20 issued patents.

Alfred A. Wolsky, retired chemist, May 16th at 95. He joined Atlantic Refining after college and retired from Arco Chemical in 1982. He was a founding scientist at MACH I in 1985 and was still working with the firm at the time of his death.

Jerry R. Peterson, retired chemical engineer, June 3rd at 80. He spent his career in research and development at General Electric in propulsion, alternative energy, nuclear power, and space efforts.

George C. Buzby, Jr., retired medicinal chemist, June 4th at 82. He had a 32-year career with Wyeth Laboratories. After retiring he worked as a volunteer pastoral care chaplain in nursing homes.

Bernard J. McKenna, retired chemist, June 7th at 95. He worked for Philadelphia Rust Proof and then became vice president of Modern Hard Chrome SGL Industries.

Robert W. Richey, retired chemical engineer, June 11th at 91. After a 27-year career with DuPont as a business manager he retired and then established a process machine manufacturing firm, Serv-I-Quip, retiring after 16 years in 1996.

James B. Gordon, retired chemical engineer, June 12th at 94. He worked for 34 years at Koppers Co/Arco Chemical, primarily in foam polystyrene packaging.

GETTING AROUND IN PHILLY

In the August 2012 issue of *the Catalyst* Bob Gates and Judy Summers-Gates wrote the *Getting Around in Philly* article. Most of the material in the current article was taken from the previous article with updated fares and current information about some of the services. Travel on the rail system has been impacted by problems found with some of the rail cars and this information is noted below.

Just about any attraction, historic or cultural site, entertainment venue, hotel, restaurant or event in Center City can be reached by SEPTA services. These services include the Regional Rail R1 Airport Line; the Market- Frankford line (running east-west); the Broad Street Line (running north-south); Bus Routes 21, 38, and 42; and LUCY, the loop bus through University City.

Philadelphia Regional Rail System

Recently problems were found with some of the cars in the rail system. As a result of this SEPTA had been running modified schedules during the week. There are several Apps that can help you get around the city. Transit Tracker, Citymapper, Transit App, and the SEPTA app provide similar information based on GPS data. Two websites that can be useful are GoPhillyGo.org and BicycleCoalition.org. The main source of information with the latest updates is www.septa.org.

Accessible Transportation for Persons with Disabilities

Most SEPTA buses are equipped with a wheelchair lift and/or kneeling step for access by persons with disabilities. However, realistically it is frequently difficult or impossible to board vehicles due to overcrowding at peak times of the day and at busy tourist destinations. In addition, the majority of the stops on the Broad Street and Market-Frankford lines are NOT accessible because they lack elevators or escalators at the station stops. The Phlash and other trolley vehicles in the system are NOT accessible.

Before traveling, visitors with disabilities are STRONGLY advised to call SEPTA at: (215) 580-7800 (then press 0) or at (215) 580-7853 (TDD) to get assistance with their transportation questions.

The website <http://wheelchairtravel.org/philadelphia-pa> (no www) has some useful information for persons with disabilities getting around Philadelphia.

Arriving in Philadelphia

Traveling by Air

Philadelphia International Airport provides visitors major access to Center City, the surrounding suburbs and South Jersey.

The Airport Line Regional Rail train provides a direct link to Center City and all of its popular attractions.

About the Airport Line and train stops – <http://www.septa.org/welcome/airport.html>

Philadelphia International Airport website – <http://www.phl.org>

Traveling by Train

30th Street Station is a major City and Inter-City rail transit hub. Located between Center City and West Philadelphia, it provides connections to Amtrak, NJ Transit rail service and all SEPTA Regional Rail lines. 30th Street is on the west side of the station (opposite the memorial statue on the east). The BoltBus and Megabus, long distance coach services, are located straight ahead as you come out -- at 30th Street and JFK Boulevard; SEPTA trolleys and the El are to the left on 30th at Market Street.

SEPTA Station Information - <http://www.septa.org/stations/rail/30th.html>

AMTRAK Information –

http://www.amtrak.com/servlet/ContentServer?pagename=am/am2Station/Station_Page&code=PHL

NJ Transit Atlantic City Line Information –

http://www.njtransit.com/rg/rg_servlet.srv?hdnPageAction=LineDetailsTo&selLine=ATLC

Traveling by Car

If you are driving to Philadelphia, why not consider parking the car at a SEPTA station and taking public transportation? From outside Center City, many Regional Rail Stations have daily parking so taking the train and connecting with our other transit services in the city is easy.

Parking Tips at Regional Rail stations - <http://www.septa.org/parking/tips.html>

Getting Around in Philadelphia is as Easy as 1-2-3

Visitors On The Go brochure | PDF - <http://www.septa.org/welcome/pictures/visitors-on-the-go.pdf>

Just strolling Center City Philadelphia? Download our Center City Street & Transit Map (<http://www.septa.org/maps/region/pdf/ccp.pdf>), our Center City Hotel Directory (<http://www.septa.org/maps/region/pdf/center-city-hotel-directory.pdf>), or select another map option from our Maps & Stations (<http://www.septa.org/maps/index.html>) section.

Details (<http://www.phillyplash.com>)

Route Map (<http://www.septa.org/maps/phlash-route-map.pdf>)

The PHLASH Downtown Loop is a quick and convenient way to travel from the Historic District, to the Parkway Museums District, to the Zoo and Please Touch Museum.

Schedule

May 1 – September 5, 2016 and November 25 – November 31, 2016, PHLASH will run seven days a week. PHLASH service from September 9 – November 20, 2016 will be on Fridays, Saturdays, and Sundays .

The hours of operation are 10:00 AM to 6:00 PM with service every 15 minutes. The PHLASH will make 22 stops between Penn's Landing, the Philadelphia Museum of Art and Philadelphia Zoo. Information about all the stops and bus route can be found at

<http://www.visitphilly.com/tours/philadelphia/phlash/>

Fares

It is only \$2.00 per ride or \$5.00 for an all-day pass. Children 4 and under and seniors are always Free. The SEPTA pass and key card holders ride Free.

City & Suburban Transit – Senior Citizen Fares

Bus, subway, trolley and Norristown High Speed Line rides are **free at all times** for seniors age 65 or older with a valid PA Senior Citizen Transit ID card: (<http://www.septa.org/fares/discount/senior-id.html>) or Medicare Card, issued by the Social Security Administration.

Regional Rail rides within the State of Pennsylvania - Seniors

\$1.00 for all seniors with a valid PA Senior Citizen Transit ID Card: (<http://www.septa.org/fares/discount/senior-id.html>), Railroad Retirement Annuity Card, or Medicare Card issued by the Social Security Administration.

Discount Senior Citizen Ten Trip tickets can be purchased for \$8.50 from any Ticket Office or online at <https://shop.septa.org/>.

Regional Rail rides outside the State of Pennsylvania - Seniors

Traveling between Center City Philadelphia & New Jersey or Delaware

50% of the regular weekday fare | anytime of travel

Cash, Tokens, Transfers & Zone Charges

When riding on a City or Suburban Transit service, exact fare must be used.

Cash

The base cash fare for bus, trackless trolley, subway, and trolley service is \$2.25. Cash is accepted for travel on all services. Exact fare must be used.

Regional Rail fares are based on zones. Knowing the zone of the station you are boarding and traveling to will help you determine the correct fare.

Cash Fare for the Norristown High Speed Line is \$2.75. For Bus Routes 123, 124, 125 and 150 the Cash Fare is \$3.75.

The base cash fare for Paratransit and Shared Ride service is \$4.00.

Tokens

Tokens provide a discount off our base cash fare and cost \$1.80 each.

Tokens may only be purchased in packs of two or more. Two cost \$3.60; five are \$9.00, and a ten pack costs \$18.80. They are also available for bulk purchase.

Tokens may not be returned at any time for a refund.

Purchase anytime at shop.SEPTA.org -

https://shop.septa.org/index.php?target=categories&category_id=8

Transfers

A transfer may be purchased for an additional \$1.00 when a trip requires more than one transit service in the same direction of travel. A re-transfer may also be purchased for an additional \$1.00. The purchase of a transfer must occur when a customer boards the first service used; a re-transfer is purchased on the second service.

Transfers are sold on a bus, trolley, trackless trolley or Norristown High Speed Line onboard; and from a cashier booth attendant on the Market-Frankford Line and Broad Street Line. Additional fare may apply for service on the Norristown High Speed Line.

There are three locations where customers may transfer for free between services. Signs and announcements often refer to this as a free interchange.

- 15th Street/City Hall Station provides a free interchange between the Market-Frankford Line, Broad Street Line and Trolley Lines.
- 13th Street/Juniper Station provides a free interchange between the Market-Frankford Line and Trolley Lines.
- 30th Street provides a free interchange between the Market-Frankford Line and Trolley Lines.

Up to two transfers are permitted for each one-way trip, and transfers are not permitted on trips near the trip's origin.

Customers who frequently use more than one service for a single trip may find a daily, weekly or monthly pass a more valuable option.

Zone Charges

Some bus routes and the Norristown High Speed Line have fare zones based upon the distance traveled.

The first zone is always covered by the base fare.

PATCO

Transportation To/From New Jersey

New Jersey Transit serves the region with 20 bus routes and one train line from Atlantic City. For more detailed info, go to their website: <http://www.NJTRANSIT.com> PATCO rail service to Center City is also a good alternative to driving and parking downtown. Seven PATCO stations in New Jersey offer ample parking: Lindenwold, Ashland, Woodcrest, Haddonfield, Westmont, Collingswood and Ferry Avenue. Trains run every 3 to 12 minutes on weekdays, 12 to 40 minutes during evenings and up to 40 minutes on weekends. Service is 24 hours a day. Visit <http://www.RidePATCO.org> for more information.

\$3.10 | SEPTA transfer from PATCO FREEDOM machine only

PATCO and SEPTA have separate fare instruments and policies. However, riders can save money and time by purchasing a reduced-fare, round-trip SEPTA ticket from any FREEDOM automated vending machine in New Jersey PATCO stations.

The SEPTA ticket is printed in two portions, one for each trip. The first portion must be used on SEPTA within 60 minutes of being purchased. The second portion of the ticket remains valid for up to 24 hours. Time restrictions are not valid on weekends or major holidays. For additional PATCO information, visit www.ridepatco.org.

PHILADELPHIA'S MAJOR HISTORIC SITES AND MUSEUMS

Historic Sites

Betsy Ross House—Where the nation's first flag was sewn.

239 Arch Street

Daily 10 AM – 5 PM

Self-guided tours, \$5 adults; \$4 children, students, seniors, military

(215) 629-4026

<http://www.betsyrosshouse.org>

Christ Church—Historic church whose congregation included Benjamin Franklin and George Washington.

2nd & Market Streets

Mon-Fri 9 AM – 5 PM; Sun 1 PM – 5 PM

Free

(215) 922-1695

<http://www.christchurchphila.org>

Christ Church Burial Ground—Final resting place of Benjamin and Sarah Franklin and five signers of the Declaration of Independence.

5th & Arch Streets

Mon-Sat 10 AM – 4 PM; Sun Noon – 4 PM

Free

City Hall—The city's government offices

Broad and Market Streets

Mon-Fri, interior tour only at 12:30 PM

Mon-Fri, tours of the observation tower Noon – 4:15 PM

Mon-Fri, Tour Information Center, East Portal, Room 121, 9:30 AM – 4:30 PM

Free

(215) 686-2840

www.phila.gov/virtualch/body_pages/history.html

Eastern State Penitentiary—Philadelphia's historic prison built in 1829 that once housed Willie Sutton and Al Capone.

2027 Fairmount Avenue (corner of 22nd & Fairmount)

Daily 10 AM – 5 PM

\$14 adults, \$12 seniors, \$10 students and children

(215) 236-3300

<http://www.easternstate.org>

Edgar Allan Poe House—Where the author penned “The Tell-Tale Heart” and other works.

7th & Spring Garden Streets (532 N. 7th Street)

Fri-Sun 9 AM – 5 PM (closed Noon-1 PM for lunch)

Free

(215) 965-2305

<http://www.nps.gov/edal>

Elfreth’s Alley—The nation’s oldest residential street dating from 1702.

2nd Street between Race and Arch Streets

Museum Hours (124 Elfreth’s Alley) and Tours Fri-Sun Noon-5 PM (\$5)

(215) 627-8680

Walking the street is free.

<http://www.elfrethsalley.org>

Franklin Court—See where Benjamin Franklin once lived and worked

Between 3rd and 4th Streets & Chestnut and Market Streets (316-322 Market St.)

Museum – daily 9-7 PM, \$5 adults, \$2 children

Courtyard – daily 9-dusk, free

Printing office – daily 10-5 PM, free

Fragments exhibit – daily Noon-5 PM, free

(215) 865-2305

<http://www.ushistory.org/tour/franklin-court.htm>

Independence Visitor Center—Orientation for Independence National Historic Park and to arrange visits to the Liberty Bell, Independence Hall, suggested walking tours, and short films about Philadelphia history.

6th & Market Streets

Open daily 8:30 AM – 7 PM

Free

800-537-7676

<http://www.independencevisitorcenter.com>

National Constitution Center—Learn what the United States Constitution stands for. Exhibits of historic artifacts and interactive exhibits.

5th & Arch Streets

Mon-Sat 9:30 AM – 5 PM

Sun Noon – 5 PM

\$14.50 adults, \$8 children, \$13 seniors and students

(215) 409-6600

<http://www.constitutioncenter.org>

Museums

Academy of Natural Sciences of Drexel University—Dinosaurs and natural history displays of North American, Asian, and African flora and fauna.

19th Street & Benjamin Franklin Parkway

Mon-Fri 10 AM – 4:30 PM; Sat-Sun 10 AM – 5 PM

\$17.95 adults (age 13 and above), \$13.95 children (3-12)

(215) 299-1000

<http://www.anasp.org>

African-American Museum—To preserve, interpret, and exhibit the heritage of African Americans.

7th & Arch Streets

Thurs-Sat 10 AM – 5 PM; Sun Noon – 5 PM

\$14 adults, \$10 seniors, students, youth (4-12)

(215) 574-0380

<http://www.aampmuseum.org>

Barnes Foundation—Extraordinary art collection highlighted with paintings of Renoir and Cezanne among others, recently relocated to Philadelphia.

2025 Benjamin Franklin Parkway

Wed to Mon 10 AM – 5 PM; closed Tuesdays

\$25 adults, \$23 seniors, \$10 students (6-18)

(215) 278-7000 RESERVATIONS RECOMMENDED

<http://www.barnesfoundation.org>

Chemical Heritage Foundation—Center for the history of chemistry and molecular sciences; museum and library.

315 Chestnut Street

Tues-Sat 10 AM – 5 PM

Free

(215) 925-2222

<http://www.chemheritage.org>

Franklin Institute Science Museum—A science museum for all ages with interactive exhibits, planetarium, IMAX Theatre.

20th Street & Benjamin Franklin Parkway

Daily 9:30 AM – 5 PM

\$19.95 adults, \$15.95 children (3-11), includes planetarium; IMAX Theatre is extra. For special combination prices with theatre or temporary exhibits, check the web site.

(215) 448-1200

<http://www.fi.edu>

Independence Seaport Museum—Maritime history of the Port of Philadelphia and Delaware River. Admission price includes two ships: Admiral Dewey's flag ship USS *Olympia* and the submarine USS *Becuna*, both within walking distance of the museum.

211 South Columbus Blvd. (the waterfront at Penn's Landing on the Delaware River). Daily 10 AM – 5 PM

\$15 adults

(215) 413-8655

<http://www.phillyseaport.org>

Mummers Museum—The story of Philadelphia's famous New Years Day parade and its extravagant costumes.

1100 South 2nd Street at Washington Avenue in South Philadelphia

Wed-Sat 9:30 AM – 4 PM

Free

(215) 336-3050

<http://www.mummersmuseum.com>

Mütter Museum—An overview of medical history and oddities, at the College of Physicians.

19 South 22nd Street between Chestnut and Market Streets

Daily 10 AM – 5 PM

\$16 adults, \$13 military, \$14 seniors, \$11 youth (6-17)

(215) 560-8564

<http://www.collphyphil.org>

National Museum of American Jewish History—The story of Jewish participation in the development of the United States.

5th & Market Streets

Tues-Fri 10 AM – 5 PM; Sat-Sun 10 AM – 5:30 PM

\$12 adults, \$11 seniors and youth (13-21)

(215) 923-3811

<http://www.nmajh.org>

Pennsylvania Academy of Fine Arts—Stunning building designed by architect Frank Furness, housing early American paintings by Gilbert Stuart, the Peale family, and others.

118 North Broad Street at Cherry Street

Tues, Thurs, Fri 10-5; Wed 10-9; Sat, Sun 11-5

\$15 adults, \$12 seniors/students, \$8 youth (13-18)

(215) 972-7600

<http://www.pafa.org>

Philadelphia History Museum (formerly Atwater Kent Museum)—A look at Philadelphia history from 1680 until today.

15 South 7th Street just south of Market Street

Tues-Sat 10:30 AM – 4:30 PM

\$10 adults, \$8 seniors, \$6 youth (13-18)

(215) 685-4830

<http://www.philadelphiahistory.org>

Philadelphia Museum of Art—One of the greatest art museums in the USA.

26th Street & Benjamin Franklin Parkway

Tues-Sun 10 AM – 5 PM (Fri until 8:45 PM)

\$20 adults, \$18 seniors, \$14 students, \$14 youth (13-18), 12 and under free

(215) 763-8100

<http://www.philamuseum.org>

Philadelphia Zoo—one of the country's greatest.

34th Street and Girard Avenue, West Philadelphia

Daily 9:30 AM – 5 PM

\$23 adults, \$19 children 2-11, under 2 free

(215) 243-1100

<http://www.philadelphiazoo.org>

Please Touch Museum—Educational and cultural hands-on exhibits designed for youngsters.

Memorial Hall, Fairmount Park (4231 Avenue of the Republic)

Mon-Sat 9 AM – 5 PM; Sun 11 AM – 5 PM

\$17 adults and children

(215) 581-3181

<http://www.pleasetouchmuseum.org>

Rodin Museum—The largest collection of the sculptor's work outside the Rodin Musée in Paris.

Between 21st and 22nd Streets & Benjamin Franklin Parkway

Wed-Mon 10 AM – 5 PM

\$10 adults, \$8 seniors, \$7 students and youth

(215) 763-8100

<http://www.rodinmuseum.org>

Rosenbach Museum & Library—18th and 19th century American and British furnishings; library of the Rosenbach brothers containing rare books and manuscripts.

2008 Delancey Street

Tues, Fri Noon – 5 PM; Wed, Thurs Noon – 8 PM; Sat-Sun Noon – 6 PM

\$10 adults, \$8 seniors, \$5 students and children

(215) 732-1600

<http://www.rosenbach.org>

University of Pennsylvania Museum of Archaeology and Anthropology—Artifacts and culture from many parts of the world with emphasis on ancient civilizations such as Egypt.

33rd & Spruce Streets in West Philadelphia

Tues-Sun 10 AM – 5 PM

\$15 adults, \$13 seniors, \$10 students and children (6-17)

(215) 898-4000

<http://www.penn.museum>

Out of Town Sites

Adventure Aquarium—Worldwide marine life with interactive exhibits.

1 Riverside Drive, Camden NJ

Daily 10 AM – 5 PM

\$26.95 adults, \$19.95 children (2-11)

856-365-3300

<http://www.adventureaquarium.com>

Battleship New Jersey—The nation's most decorated battleship.

Camden, New Jersey waterfront across from Philadelphia's Penn's Landing

Daily 9:30 AM – 5 PM

\$21.95 adults, \$17 seniors, veterans, children (5-11)

856-966-1652

<http://www.battleshipnewjersey.org>

Longwood Gardens—World's premier horticultural gardens, both indoor and outdoor.

Route 1 (1001 Longwood Rd.), Kennett Square PA

Daily 9-6

\$20 adults, \$17 seniors, \$10 students (5-22)

610-388-1000

<http://www.longwoodgardens.org>

—Alan Warren

Philadelphia Area Girls Enjoying Science™ Continues to Excite Girls

For about 20 years, the Philadelphia Section of the ACS has been sponsoring hands-on science days for sixth grade girls at Chestnut Hill College. Philadelphia Areas Girls Enjoying Science™ (PAGES™), originally known as Expand Your Horizons, attracts ~ 125 girls and ~ 50 volunteers each spring and fall.

The goals of these mini-conferences are: (1) to increase girls' interest in science and mathematics, (2) to provide students an opportunity to meet women working in non-traditional fields, and (3) to foster an awareness of varied career opportunities for women.



nitrogen; learning
diapers; making
records to deter-
amazed by the



The program begins with a 45-minute talk by an inspiring scientist about her career path and passions. The girls are then given safety glasses and head to the labs for three 45-minute experiments. The experiments at each event vary and have included making slime, soda pop, lava lamps, Cartesian divers and ice cream; separating the colors in M&M® candy coatings; separating the components in over-the-counter analgesics; exploring surface tension; testing water; making polluted water and trying to clean it up; discovering the properties of dry ice and liquid about the technology used in making disposable circuits with conductive polymers; using fossil mine if various dinosaurs ran or walked; and being flame chemistry of inorganic salts.

The day ends with goody bags, lunch, decorating a banner, and door prizes. There is plenty of opportunity for the adults to network with other volunteers at lunch. It is inspiring to see so many women giving up their Saturday to be chaperones and perform experiments with the girls. There are always many new volunteers and dozens of program veterans.

Check out our web site at <http://PAGESprogram.org>. You may even find a picture of someone you know. There are some great photos from the previous sessions.

We would also like to thank our sponsors and collaborating organizations. These include: The Makefield Area Branch of AAUW (American Association of University Women); Philadelphia Chapter of Association for Women in Science (AWIS); Chemical Heritage Foundation; Fisher Scientific; and VWR Scientific.

Mark your calendars for November 5, 2016 and April 22, 2017 for the next PAGES™ mini-conferences. Please contact me at (215) 736-9285 or katt@verizon.net to volunteer.



Kathy Shaginaw
ACS Philadelphia Section WCC Chair



..... turning the page to a bright chapter in the future of our girls.

LOOKING FOR COMESTIBLES IN PHILLY, V*

– Kathy Shaginaw, July 2016.

The Philadelphia restaurant scene has changed a lot in the four years since the last ACS National Meeting in Philadelphia. Many restaurants have closed or moved, but it seems that even more have opened. There are so many wonderful places to enjoy that it is hard to pick – you just need to come back to town when the ACS meeting is not here.

The Philadelphia Convention Center's main entrance is at 12th & Arch Streets. The combination of real Philadelphia character and proximity to the Convention Center makes the *Reading Terminal Market* a must-try location for breakfast, lunch or an early dinner (not fancy). Enter on the east side of 12th St., between Arch St. & Market St.: 8 AM–6 PM, Sunday 9 AM–5 PM (not all vendors on Sundays, <http://www.readingterminalmarket.org/about/hours>). You can eat in or take out, from a variety of seafood, sandwich, pizza, deli, bread, coffee, pastry, and Pennsylvania Dutch (not for the lipophobe) stands. This venerable and bustling food bazaar also has bookstores and grocery, spice, fish, Lancaster County poultry and sausage, fruit and vegetable outlets, and even caters to turophiles.

13th Street has undergone a wonderful renaissance and is handy to the Convention Center. Chef Marcie Turney and Valerie Safran are the pioneering entrepreneurs that have helped transform the once-desolate neighborhood into trendy Midtown Village (<http://weheartphilly.com>). Enjoy *Jamonera* (Spanish wine bar with wonderful tapas, \$\$\$, 105 S. 13th St.), *Lolita* (Modern Mexican, \$\$\$, 106 S. 13th St.), *Marcie Blaine* (Artisinal chocolates – they even have a Philadelphia chocolates series, 108 S. 13th St.), *Little Nonna's* (Italian American, \$\$\$, 1234 Locust St.), *Bud & Marilyn's* (Retro-American dishes and classic drinks, \$\$\$, corner of 13th and Locust Sts.) and *Barbuzzo* (Mediterranean Bar, \$\$\$, 110 S. 13th St.).

Philadelphia has a vibrant Chinatown with many restaurants, just a few of which are *Joy Tsin Lau* (\$, 1026 Race St., known for their endless dim sum, Sun–Sat 10–3:30, <http://www.joytsinlauchineserestaurant.com>); *Sang Kee Peking Duck House* (the ducks are hanging in the window waiting for your dining pleasure, \$\$, 238 N. 9th St., <http://sangkeechinatown.com>); *Xi'an Sizzling Woks* (casual bustling favorite, \$, 902 Arch St., <http://www.xian-sizzlingwoks.com>); try the soup dumplings at *Dim Sum Garden* (BYOB Chinese offering a range of dumplings, classic rice & noodle meals, \$, 1020 Race St., <http://www.dimsumgardenphilly.com>, definitely not GF); *Ocean City Seafood Restaurant* – plastic tablecloths, but a large selection, including dim sum (\$, 234 N 9th St., <http://www.oceancityphilly.com>); *Tasty Place* (\$, 143 N. 11th) Hong Kong-style entry in the underground restaurant scene; my favorite, *Lee How Fook* (\$, 219 N. 11th St., <http://www.leehowfook.com>); *Imperial Inn* (\$, dim sum, 146 N. 10th St.); *Shiao Lan Kung* (casual, small BYOB \$, 930 Race St.); *Rangoon Burmese Restaurant* (\$, 112 N. 9th St., <http://www.rangoonrestaurant.com>); *Vietnam Restaurant* (\$, 221 N. 11th St.,

http://www.eatatvietnam.com/vietnam_restaurant.php). For a culinary adventure, you may want to try *Joseph Poon's* popular “[Wok 'N Walk Tours of Philadelphia Chinatown](#)” (1010 Cherry St.).

A few blocks west is the city's newest and tallest skyscraper, the Comcast Center “thumb drive” with *The Market and Shops* food court in the lower level is a cut above the usual mall variety; you can sit out on the plaza at street level with your lunch; check out the neat video display in the lobby (\$, various, 1701 JFK Blvd., <http://www.themarketandshopsatcomcastcenter.com>).

If the weather is nice, walk over to the Spruce Street Harbor Park (<http://www.delawareriverwaterfront.com/places/spruce-street-harbor-park>). You will find hammocks, fountains, floating gardens, tables and chairs among the trees. There might even be a band playing. A number of great local restaurants have food stalls.

The majority of the dining establishments listed below are also within walking distance of the Convention Center. Remember that Philly is laid out on William Penn's grid system – a north-south Center City block is about a minute long to walk, an east-west one about 2 minutes long. The y-axis is Broad (14th) St., the x is Market St. Our pricing guesses devolve from “\$\$”=medium=\$35–\$45. There's also a 7% sales tax whacked on top in Philly. A tip of about 16–18% is considered normal. Many of the restaurants that can serve diners with a gluten intolerance are tagged as “GF” (A wonderful web resource for gluten-free dining is <http://www.glutenfreephilly.com/p/gluten-free-restaurants.html>).

Following on from these are some quite trendy places, including *Zahav* (Israeli, \$\$\$, 237 St. James Place just off Walnut St., between 2nd and 3rd Sts., <http://zahavrestaurant.com>); *Sbraga* (Top Chef winner Kevin Sbraga's modern American restaurant – try to sit at the chef's counter, \$\$\$, 440 S. Broad St., <https://www.sbragadining.com>); *The Fat Ham* (Kevin Sbraga's Southern small plates, \$\$, 3131 Walnut St.); *South* features three distinct spaces and experiences: a warm and inviting Dining Hall, a Jazz Parlor with a center stage for exciting jazz performances, and an elegant, yet comfortable Bar/ Lounge (Southern, \$\$\$, 600 N. Broad St., <http://www.southrestaurant.net>); *Buddakan* (fusion/oriental, \$\$\$, 325 Chestnut St., GF), *Audrey Claire* (Mediterranean, no credit cards, BYOB, \$\$, 276 S. 20th St., <http://www.audreyclaire.com>), *Sampan* (Modern Asian street flavors, \$\$\$, 124 S. 13th St., GF), *XIX Café* and *XIX Restaurant*, American, views from the magnificent domed 19th floor pent-house rooms (\$\$\$\$), Park Hyatt/Bellevue, 200 S. Broad St.); *a.kitchen+bar* (modern American, \$\$\$, 135 South 18th St. and 1737 Walnut St., <http://www.akitchenandbar.com>); and *Square 1682* (Out of the box dining on Rittenhouse Square, \$\$\$, 121 S. 17th St., GF, <http://www.square1682.com>). However, if for any of these last dozen or so, you did not make a reservation a while ago, you might be out of luck. On the other hand, I appreciate *Ellen Yin's Fork* (\$\$\$, 306 Market St., <http://forkrestaurant.com>), where you can lunch *al fresco*, and *High Street on Market* (\$\$, 308 Market St., <http://highstreetonmarket.com>). Many other places offer

that opportunity, including *Rouge* (\$\$\$, 205 S. 18th, <http://www.rouge98.com>, GF) and *Table 31* (\$\$, 1701 JFK Blvd., <http://www.table-31.com>).

Chef Marc Vetri has a number of well-established and very popular restaurants. At the top of the list is *Vetri* (superb American Italian, \$\$\$\$, 1312 Spruce St., <http://vetriristorante.com>, GF). If you cannot afford *Vetri*, try one of Marc Vetri's other Italian restaurants: *Osteria* (\$\$\$, 640 N. Broad St. – great pizza and wonderful chicken liver rigatoni, GF); *Alla Spina* (\$\$\$, 1410 Mt. Vernon St.); *Amis Trattoria* (\$\$\$, 412 S. 13th St., GF), Pizzeria Vetri Fairmount (try the mortadella and ricotta rotolo with pistacchio pesto, \$\$, 1939 Callowhill St., <http://www.pizzeriavetri.com>); Pizzeria Vetri Rittenhouse (\$\$, 1615 Chancellor St., <http://www.pizzeriavetri.com>); and the newest, Lo Spiedo (wood-grilled meats & fish, \$\$, 4503 S Broad St., Philadelphia, <http://www.lo-spiedo.com>).

Chef Michael Solomonov is known for his extraordinary skill at transforming simple foods into artful culinary masterpieces. His restaurants include *Zahav* (Israeli, \$\$\$, 237 St. James Place just off Walnut St., between 2nd and 3rd Sts., <http://zahavrestaurant.com>); *Abe Fisher* (cuisine inspired by the Jewish diaspora, \$\$\$, 1616 Sansom St., <http://www.abefisherphilly.com>); *Federal Donuts* (only donuts and fried chicken – what more do you need when you want a fried food fix?, \$, five locations including 1632 Sansom St. and the Phillies' ballpark, <http://www.federaldonuts.com>); *Percy Street Barbecue* (Texas Hill Country BBQ, \$\$, 900 South St. at the corner of Percy St., <http://www.percystreet.com>); and *Dizengoff* (Israeli-style hummus and fresh pita, \$, 1625 Sansom St., <http://www.dizengoffhummus.com>).

For those of you who are fans of the Food Network and Iron Chef America, the Philadelphia area is home to Iron Chef Jose Garces and a number of his innovative restaurants (<http://garcesgroup.com>), each with a different flair. Walking distance from the Convention Center are: *Amada* (Spanish tapas, \$\$\$, 217–219 Chestnut St., GF), *Garces Trading Co.* (café, market and liquor store, \$\$, 1111 Locust St., GF), *Volvér* (in the Kimmel Center with decadent multi-course chef's tasting, \$\$\$\$, 300 S. Broad St.), and The Olde Bar (in the Historic Bookbinder's Building with an extensive raw bar, 125 Walnut St.). A bit west of the Convention Center are: *Distrito* (Modern Mexican, \$\$\$, 3945 Chestnut St. (entrance on 40th St.), GF), *Tinto* (Basque wine bar, \$\$\$, 114–116 S. 20th St., GF), *Buena Onda* (casual taco, \$, 1901 Callowhill St.), *Village Whiskey* (\$\$, 118 South 20th St., GF), and *JG Domestic* (contemporary American, \$\$\$, 2929 Arch St., GF).

Many people say that you really cannot go wrong at a Steven Starr Restaurant (<http://www.starr-restaurant.com/restaurants.htm>) and I would enthusiastically agree. The ones that I have tried are: the trendy *Alma de Cuba* (modern Cuban, \$\$\$, 1623 Walnut St., GF), *the Continental* (global tapas and martini bar, \$\$\$, 138 Market St., GF), *El Vez* (modern Mexican, \$\$, 121 S. 13th St., GF), and *Pod* (contemporary pan Asian, \$\$\$, 3636 Sansom St., GF) and his French bistro-style *Parc* (\$\$\$, 227 S. 18th St.). There are also *El Rey* (authentic Mexican, \$\$, 2013 Chestnut St., GF), Brit Pub-style *Dandelion Pub* (\$\$, 18th & Sansom Sts.) – no veal, egg

and ham pie, but they do have cheddars, shepherd's pie, numerous hand-pulled ales, and do afternoon tea as well.

You prefer seafood ? *Devon Seafood Grill* (\$\$\$, 225 S. 18th St., GF) always good and sometimes wonderful; *Spasso* (\$\$, 34 S. Front St., <http://www.spassoitaliangrill.com>); *Dmitri's* (Mediterranean \$\$, 944 N 2nd St. and 795 S 3rd St., <http://dmitrisrestaurant.com>); *DiNardo's Famous Seafood* (\$\$, 312 Race St., <http://www.dinardos.com>); *Kisso Sushi Bar* (\$\$, 205 N. 4th St., <http://kissosushibar.com>); *McCormick & Schmick* (an Oregon Irish seafood chain?, \$\$\$, 1 S. Broad St.); *Morimoto* (\$\$\$, 723 Chestnut St., <http://www.morimotorestaurant.com>) more than just sushi platters; *Oyster House* (\$\$\$, 1516 Sansom St., <http://oysterhousephilly.com>) has a raw bar.

Italian: Refined Northern style is easy to find in Philly; as you move south-east in the city, the brown reductions give way to tomato-based sauces, known locally as "gravy". *Branzino* – one of our BYOB faves – sometimes rushed service, but a great menu (\$\$, 261 S. 17th St., <http://www.branzinophilly.com>); *Bistro La Viola* – nice little BYOB, but not easy to get a table (\$\$, 253 S. 16th, <http://laviolaphiladelphia.com>); *La Viola Ouest* – new extension of La Viola, BYOB (\$\$, 252 S. 16th); *Lo Locanda Del Ghiottone* (\$\$, 130 N. 3rd St.); *Giorgio On Pine* (Italian BYOB, \$\$, 1328 Pine St., frequented by Drexel Chemists, <http://www.giorgioonpine.com>); *Modo Mio* (Modo Mio means "My Way" featuring regional Italian cuisine, \$\$\$, 161 W. Girard Ave., <http://www.modomioresaurants.com>); *Melograno* (BYOB, \$\$, 2012 Sansom St., <http://www.melogranorestaurant.com>); and *Davio's Northern Italian Steakhouse* (\$\$\$, 111 South 17th St., GF).

French: Outnumbered by Italian – this is Philadelphia, after all. My current favorite French restaurant is *Parc* (\$\$\$, 227 S. 18th St.) – the people watching on Rittenhouse Square is fun, the food is decadent, and the energy is fun. My husband's favorite French restaurant is cozy *Le Chéri* (\$\$\$, 251 S. 18th St., <http://www.lecheriphilly.com>) in The Philadelphia Art Alliance. Other options are *Bibou* (cash only, \$\$\$, 1009 S. 8th St., <http://www.biboubyob.com>) imaginative American-French BYOB. *Caribou Café* – French bistro style, a lunchtime fave (\$\$, 1126 Walnut St., <http://www.cariboucafe.com>); *La Croix* (\$\$\$, the Rittenhouse Hotel, just south of Walnut & east of 18th, <http://www.lacroixrestaurant.com>); *Zinc* (\$\$\$, 246 S. 11th St., <http://www.zincbarphilly.com>).

Mexican: traditionally not a forté of Philly, but *Xochitl* (pronounced so-cheet) (\$\$, 408 S. 2nd St., <http://www.xochitlphilly.com>, GF) has wonderful guacamoles and a nice tequila selection. Already mentioned are *Distrito* (Modern Mexican \$\$\$, 3945 Chestnut St. (entrance on 40th St., GF)) and *El Vez* (modern Mexican, \$\$, 121 S. 13th St., GF). Other option are *Jose Pistola's* (Mexican, with Belgian beers, \$, 263 S. 15th St., <http://www.josepistolas.com>); *Tequila's* (Mexican, \$\$, 1602 Locust St., <http://tequilasphilly.com>).

You want a steakhouse for your expense account? *Prime Rib* (steakhouse, \$\$\$, 1701 Locust St.) <http://www.theprimerib.com>; *Capital Grille* (\$\$\$, 1338 Chestnut St.,

<http://www.thecapitalgrille.com>, GF); *Barclay Prime* (Boutique Steakhouse, \$\$\$\$, 237 S. 18th St.); *Ruth's Chris Steakhouse* (\$\$\$, moved to 1800 Market St., GF); and *Morton's of Chicago* (\$\$\$, 1411 Walnut St., with cigars, GF).

Greek: *Estia* (\$\$\$, 1405 Locust St.) originally built on seafood flown in from the Mediterranean, they have since expanded their menu and they have an extensive Greek wine list – a fabulous restaurant choice; *Opa* (modern Greek, \$\$, 1311 Sansom St., <http://opaphiladelphia.com>); *South Street Souvlaki* (\$, 509 South St., <http://southstreetsouvlaki.com>); *Kanella* (Cypriot Greek, \$\$, 757 S. Front St., <http://www.kanellarestaurant.com>) – you may have seen the Philly episode of *Million Dollar Critic* where they won; and *Effie's* (\$\$, 1127 Pine St. – outdoors tables, <http://effiesrestaurant.com>).

Interested in places with noteworthy wine selections? *La Famiglia* (Italian, \$\$\$, 8th S. Front St.; extensive Italian wine list at this Philly favorite; <http://www.lafamiglia.com>); *Ristorante Panorama* (Italian, \$\$\$, 14 N. Front St. – extensive wine bar, <http://www.pennsviewhotel.com/panorama>); *Zavino Wine Bar Pizzeria* (fun tapas, great pizza in a cozy little place with some outside seating, \$\$, 112 S. 13th St., GF – great GF pizza, <http://www.zavinohospitalitygroup.com>) and *tredici enoteca* (across the street and owned by Zavino); *Tria Café* (wonderful cheeses, meats, wine, and beers served by a knowledgeable staff, \$\$, now with four locations at Rittenhouse Square (18th & Sansom Sts.), Washington Square West (12th & Spruce Sts.), GF), *Tria Fitler Square* (2227 Pine St.) and *Tria Taproom* (2005 Walnut St.); and previously mentioned *Estia*.

Places with music: *the Plough & Stars* (\$\$ Irish, on 2nd St. between Market and Chestnut Sts., <http://ploughstars.com>); send your students to *Howl at the Moon* (\$, 258 S. 15th St., <http://www.howlatthemoon.com>); and *South* with exciting jazz performances (Southern, \$\$\$, 600 N. Broad St., <http://www.southrestaurant.net>). The *Victor Café* (trad. S. Italian, \$\$, 1303 Dickinson St., <http://victorcafe.com>), where the proprietor possesses a huge collection of opera music (much on 78s), the waitstaff are nearly all classical singers in training, and at various random points in the evening, these two factors combine delightfully. In other words, you go for the entertaining ambience.

Others worth noting ...

- The *Philadelphia Museum of Art* itself has pleasant eateries, including a vastly improved cafeteria, a restaurant and a café;
- *Pizza Brain* (quirky pizzeria & funky pizza museum, \$, 2313 Frankford Ave., <http://www.pizzabrain.org>) with *Little Baby's Ice Cream* (hand-made, small batch ice cream, \$, <http://www.littlebabysicecream.com>) in the same space;
- *City Tavern* ("18th century" menu, \$\$\$, 138 S. 2nd St., GF) – owner and Executive Chef Walter Staib on our local PBS station;

- *Russet* (seasonal & local New American BYOB, \$\$\$, 1521 Spruce St., <http://www.russetphilly.com>);
- *Pure Fare* (creative, healthy breakfast & lunch options with calorie counts on the menu, 119 S. 21st St., <http://www.purefare.com>);
- *London Grill* (\$\$ American, 2301 Fairmount Ave., GF). As a side note, you may want to tour the Eastern State Penitentiary next to the London Grill;
- *The Black Sheep* (Irish modern dining upstairs \$, 247 S. 17th St.);
- *Fogo de Chao* (the more-meat-than-you-can-eat Brazilian churrascaria chain, \$\$, 1337 Chestnut St., GF);
- *Chima* (20th St. & JFK Blvd., <https://www.chimasteakhouse.com>, GF);
- *Cuba Libre* (Cuban, \$\$, 10 S. 2nd St. – spirited décor, some routine dishes, some very good ones, GF);
- *Sazon* (authentic Venezuelan BYOB with specialty hot chocolates, \$, 941 Spring Garden St., Cash only, GF);
- *Mixto* (Cuban, Latin American and Caribbean, \$\$, 1141 Pine Street, <http://www.mixtorestaurante.com>);
- *Ariana* (Afghani, \$, 134 Chestnut St., <http://restaurantariana.com>);
- *Karma* (Indian, \$\$, 114 Chestnut St., <http://karmaphiladelphia.com>);
- *Figs* (Moroccan, \$\$, 2501 Meredith St., <http://www.figsrestaurant.com>);
- *Fez* (Moroccan, \$\$, 620 S. 2nd St., <http://fezrestaurant.com>) includes belly-dancers;
- *Moshulu* (American, \$\$\$, <http://www.moshulu.com>) the refurbished four-masted restaurant floating on the Delaware at Penn's Landing;
- *Geno's Steaks*; *Pat's Steaks* (Philly cheesesteaks, \$, both S. 9th St. & Passyunk Ave.) (I include these guys not as sources of *haute cuisine*, but as they claim the fame of being the original sources. The classical Philly cheesesteak is made with onions, thinly-sliced beef, American cheese (though I suggest substituting *provolone* when possible) and a split long roll, onto the grill in that order.);
- *Paesano's Italian Style* serves outrageous sandwiches in two locations (casual, \$, 152 W. Girard Ave, and 1017 S 9th St. in the Italian Market, <http://www.paesanophillystyle.com>, GF) – try the Paesano or the Arista sandwiches;
- *Di Bruno Brothers* sells a wide variety of Italian specialties. They have a number of locations around town, including the Italian Market and their newest and largest location at 1730 Chestnut St. (which has a nice area to sit and eat your delicacies) (<http://www.dibruno.com>);

- *Famous 4th St. Delicatessen* (\$, 700 S. 4th St., <http://famous4thstreetdelicatessen.com>) the best of Philly's not many delis east of the Schuylkill River;
- Expect long lines at *Spread Bagelry* for their Montreal wood oven bagels (\$, 262 S. 20th St., <http://spreadbagelry.com>);
- The *Melrose Diner* (American, \$, 1501 Snyder Ave., <http://www.themelrosedinerandbakery.com>);
- A local chain of fresh diner fare is *Sabrina's Café* (\$, BYOB, locations at 910 Christian (in the Italian Market), 1804 Callowhill St. (near the Philadelphia Art Museum), and 227 N. 34th St. (near Drexel U.) , GF) – the Italian chicken sandwich is my favorite;
- New restaurant (May 2016) *bop* (Korean inspired grille – try a bibimbop for a bowl full of deliciousness, \$\$, 220 S. Broad St., <http://www.bopphilly.com>) is a fun casual place;
- *Han Dynasty* (Sichuan eats plus late-night street-food menu, \$\$, there are a number of locations around town with the closest one at 123 Chestnut St. in an old bank, <http://www.handynasty.net>);
- *Friday Saturday Sunday* (retro continental, \$\$, 261 S. 21st St.);
- Close to the Convention Center are *FUEL Center City* (healthy fare, \$, 1225 Walnut St., GF); *Maggiano's* (chain Italian, \$, 1201 Filbert St., http://www.maggianos.com/EN/12th-Filbert_Philadelphia_PA/Pages/LocationLanding.aspx, GF); and
- for chocolate and more chocolate, *Max Brenner* café (\$\$, 15th St., just south of Walnut St.).

Visitors from some other areas may suffer sticker shock at the wine markups in Philadelphia restaurants. The reasons for this are (i) they have to buy their wine from the Pennsylvania Liquor Control Board's state monopoly, (ii) there was an Unfortunate Incident in Johnstown, PA, a little while ago - the Johnstown Flood- and (iii) the number of liquor licenses is limited, so they cost $\$n \times 10^4$ each, pushing the restaurateurs to pile the charges on. About 20% of the price of a bottle of wine is an emergency tax that goes toward the Johnstown Flood Relief Fund. The Johnstown Flood was only just in 1889, but one remains ever-hopeful that the Relief will soon be consummated and the tax repealed. Meanwhile, the Pennsylvania legislature is currently enmired in their decennial debate about privatizing the retail stores. The limited supply of licenses has led to a plethora of quite good BYOB restaurants. In addition to the Italians mentioned above: *Sahara Grill* (Middle Eastern, \$, 1334 Walnut St.). We order the delicious appetizer sampler plate as a main course. Treat your research group for dinner at this small BYOB and get out with your wallet intact. Oh, no, did I let the cat out of the bag? Reserve for >2, or get there before 6:45; *Kanella* (Cypriot Greek, \$\$, 757 S. Front St.); *Kabul* (Afghani, \$, 106 Chestnut St., <http://kabulafghancuisine.com>); and *Minar Palace* (Indian, \$, 1304 Walnut St., <http://www.minarphilly.com>).

Philadelphia is often now referred to as “Brussels on the Schuylkill,” as it has become the center of gravity of Eastern US craft brewing and microbrewery activity. The annual beer festival is (unfortunately for Fall ACS) in early Spring, but many places have regional brews on tap. Look out for those from Yards and Dock Street (in Philly), the superb Victory brews (especially their Hop Devil IPA), Stoudt’s, Flying Fish and Dogfish Head (Delaware).

You can buy wine for your BYOB restaurant dinner at Pennsylvania Liquor Control Board stores. Anyhow, there are “regular” stores (as at 5 N. 12th St.; 32 S. 2nd St.; 1237 S. 11th St.; & 1628 JFK Blvd., Mon–Sat. 9/10 AM–7/9 PM, closed Sun., pass the Thunderbird) and also “premium stores” which are more consumer-friendly by having a better selection and longer trading hours (Mon–Sat 9 AM–9 PM, Sunday! 12 noon–5 PM) at 2040 Market St.; 1940 S. Christopher Columbus Blvd.; 724 South St.; 1218 Chestnut Street; and 326 S. 5th St.. *Pinot Boutique* at 227 Market St. offers wine tastings (<http://www.pinotboutique.com>) and they are open on Sundays. The State stores do not sell beer, but places in Center City where you can try good brews and get something to eat as well include *Monk’s Café* (Belgian) – with a big selection of domestic and imported beers, good burgers and mussels and yet more mussels and a boudin blanc sausage sandwich (\$, 264 S. 16th St. – get there early); *Jose Pistola’s* (Mexican, with Belgian beers, \$ 263 S. 15th St.); and *Good Dog Bar* (untrendy, burgers, \$, 224 S. 15th St., <http://www.gooddogbar.com>). Slightly further away is another beer haven – *Eulogy Belgian Tavern* (136 Chestnut St., <http://www.eulogybar.com>).

Hey, speaking of architecture, we have to mention a couple of our favorite lesser-appreciated Philly gems. One is the Art Deco eastern facade of Suburban (ex-Pennsylvania RR) Station, which you can contemplate from the corner of 15th & JFK. Not far away is the 1928 WCAU Building, at 1620 Chestnut St. The Loew’s Hotel (1200 Market St., includes *Bank & Bourbon* restaurant, \$\$\$) now inhabits what looks like a perfectly ordinary 1960’s skyscraper. However, this was actually built in 1929–32, contemporaneously with the Chrysler and Empire State buildings, as the home of the PSFS bank. It bears the distinction of likely being the first Modernist skyscraper in all of the Americas. Take a dekho at its Art Deco lobby and bar. A bit further south and east, enter the Curtis Building *via* its 6th St. entrance just north of Walnut St., near Independence Hall. The lobby is *ab originale* from 1916, and the west wall comprises Maxwell Parrish’s magnificent *Dream Garden* mural, executed in favrile glass by Louis Comfort Tiffany. This was Philadelphia’s best-kept secret until about 1998, when a Las Vegas mogul created a local uproar by putting a down-payment on it for his casino. Hey, no way, buddy!

No Philadelphia restaurant review would be complete without mentioning sweet frozen endings to your meal. *Rita’s Water Ice* is a classic Philly tradition, with many locations scattered about the city (GF). For true frozen decadence try *Capogiro*, makers of fine artisanal gelato and sorbetto (locations in Midtown Village (119 South 13th St., GF), Rittenhouse Square (117 S. 20th St., GF), University City (3925 Walnut St., GF), and Passyunk (1625 East Passyunk Ave., GF)). *National Geographic* featured Capogiro in their book of 500 *Food Journeys of a Lifetime*. A fun

Chinatown stop is *T-swirl Crêpe* (sweet and savory crepes served in a paper cone so you can eat it on the go if you want, \$, 150 N. 10th St., <http://t-swirlcrepe.com>). *The Franklin Fountain* is an old-fashioned ice cream parlor that is busy even in the middle of winter (ice cream with a candy shop a couple of doors away on Market St., 116 Market St., <http://www.franklinfountain.com>).

* I: *the Catalyst*, August 1984; II: *the Catalyst*, August 2004, III: *the Catalyst*, August 2008, IV: *the Catalyst*, August 2012. Previous editions authored or coauthored by Tony Addison.

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Ready for a Shopping Break??

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- the nation's oldest continuously operating farmer's market
- the nation's oldest and largest working outdoor market
- the largest shopping complex on the East Coast
- a 1.6 million square foot enclosed outlet mall
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Farmer's and Outdoor Markets

Reading Terminal Market - Celebrating over 120 years — Experience over 80 unique merchants who sell fresh produce; Amish specialties; fresh meats, seafood, and poultry; unique, handmade pottery, jewelry and crafts from around the world. Located at 12th & Arch Sts., the nation's oldest continuously operating farmer's market is open Mon-Sat 8 AM - 6 PM, with some vendors open on Sun 9 AM - 5 PM. Note that Pennsylvania Dutch vendors have limited hours. More information can be found at <http://www.readingterminalmarket.org/>.

Italian Market — Dozens of street vendors can be found lining south 9th Street selling fresh vegetables, fish, meat, spices and produce from their stalls while gourmet shops and restaurants occupy the storefronts between the stalls. Located at S. 9th Street and Washington Avenue (along 9th Street between Wharton and Fitzwater), the nation's oldest and largest working outdoor market is open Tues-Sat 8 AM - 4 PM, Sun 8 AM - 1 PM. More information can be found at <https://italianmarketphilly.org/>.

Malls

King of Prussia Mall — The largest shopping complex on the East Coast boasts 6 department stores and over 400 shops and restaurants — there's something for everyone here! It's located just 15 miles west of Philadelphia on Route 202 at Mall Blvd., where I - 76 meets the Pennsylvania Turnpike. The mall is open Mon-Sat 10 AM - 9:00 PM, Sun 11 AM - 6 PM.

Philadelphia Mills Outlet Mall — This amazing outlet mall offers top designer names at up to 60% off!! There are over 200 stores, some food courts, several theme restaurants and a 14-screen AMC movie theater. It's located only 15 miles from Center City just off Interstate 95 at the intersection of Woodhaven Road (PA 63) and Knights Road. The mall is open Mon-Sat 10 AM - 9:00 PM, Sun 11 AM - 7 PM.

Specialty Shops

Jewelers Row — America's oldest Diamond District! Dozens of independent jewelry stores await you here, offering a virtually unlimited selection of fine jewelry at greatly discounted prices! Located a short walk from the Philadelphia Convention Center on Sansom Street between 7th & 8th Streets and on 8th Street between Chestnut and Walnut Streets, many shops are open seven days a week.

Antique Row — A local favorite spot to search for that antique book, stained glass, or furniture you've been after! It's located just six blocks from the Convention Center along Pine Street between 9th & 13th Streets. Hours vary by store.

High End Boutiques, Vintage Shops and One-of-a Kind Shops

Rittenhouse Row — Located from the Avenue of the Arts to 21st St. and from Spruce to Market Streets, it features international upscale retailers as well as trendy, independent specialty shops. Hours vary by store.

Main Street in Manayunk — With over 50 shops, trendy boutiques and galleries, you're sure to find that one-of-a-kind item you're looking for here! It's located just minutes from Center City along Main Street (4300 Main Street). Hours vary by store.

Old City — Visit the "liveliest urban neighborhood between Soho in New York and SoBe (South Beach) in Miami," according to *National Geographic* magazine. Offering over 100 vintage and high end fashion boutiques and home furnishings, it's located along the 2nd & 3rd Street corridors of Old City. Hours vary.

South Street — Stop by Philadelphia's famous street to check out an eclectic lineup of shops, many independently owned. The shops are located on South Street, between Front & 8th Streets. Hours vary.

Join the YCC at the National Meeting in Philadelphia!

For a complete list of national YCC events, check out the YCC road map posted at www.ycc.acs.org after August 1st. The Philadelphia YCC is sponsoring a table at the Expo and will have demos from Dow Chemical, the Society of Tribologists and Lubrication Engineers, International Flavors and Fragrances, and the Philadelphia Water Department.

Unable to attend the National Meeting, but still want to meet some younger chemists in town for the National Meeting? Check out these events:

Friday August 19th

Join the national YCC for a social event at the Field House on Market Street near the Convention Center starting at 6 PM. The event will be Dutch treat with opportunities to get a drink or dinner.

Saturday August 20th

Join the national YCC and all ACS members interested in networking with younger chemists at the Independence Beer Garden starting around 8:30 PM. Each person pays for their own drinks.

Monday August 22nd

YCC Fun Run--Join the YCC Fun Run on Monday, August 22, 2016 at 7:00 AM. It's a 3-mile course with paces for walkers, joggers, and runners. Advanced registration required. You can sign up when registering for the meeting or at the following website: <https://www.eventbrite.com/e/philly-acs-national-meeting-fun-run-tickets-26571299472>

YCC Social Hour--Join the National and Local YCC for a happy hour at New Liberty Distillery (1431 N Cadwallader St, Philadelphia, PA 19122) from 5-8 PM on August 22nd. Advanced registration required with a limit of 50 people able to attend. Please register at <https://www.eventbrite.com/e/ycc-social-tickets-25451081871>

August Historical Events in Chemistry

by Leopold May

The Catholic University of America
Washington, DC 20064

- August 6, 1766 Two hundred fifty years ago on this date, William H. Wollaston was born. He discovered palladium (Pd number 46 in 1803) and rhodium (Rh number 45 in 1804). He developed a method for making platinum (Pt number 78) malleable and produced platinum wire 1/10,000 of an inch in diameter.
- August 18, 1916 One hundred years ago on this date, Walter J. Kauzmann was born. He did research on the hydrophobic effect in the three-dimensional structure of proteins. Kauzmann's paradox deals with the nature of supercooled liquids.
- August 21, 1816 Two hundred years ago on this date, Charles F. Gerhardt was born. He was a researcher on theories of homologous series.
- August 25, 1916 One hundred years ago on this date, Frederick C. Robbins was born. He was a researcher on growth of viruses in tissue culture. He won the Nobel Prize in Medicine (1954) along with John F. Enders and Thomas H. Weller for their discovery of the ability of poliomyelitis viruses to grow in cultures of various types of tissue.
- August 28, 1878 George H. Whipple was born on this date. He was a researcher on anemia and diabetes. He won the Nobel Prize in Physiology or Medicine (1934) with George R. Minot and William P. Murphy for their discoveries concerning liver therapy in cases of anemia.

Dr. Leopold May passed away on June 14, 2012 but his website is still active and additional historical events can be found at: <http://faculty.cua.edu/may/Chemistrycalendar.htm>

DIRECTORY OF SERVICES

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.

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- University & College teaching positions
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info -- www.mboservices.net

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All committees are looking for new members and several are looking for "take charge" chairs. Some, like the Teller's Committee, involve minimal work—one night per year and pizza provided. Others, like positions on Communications or Social Committees, involve one or two hours per month.

Committee details can be found at:

www.membership.acs.org/p/philadelphia

or by calling the Philadelphia Section Office (215) 382-1589.



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