

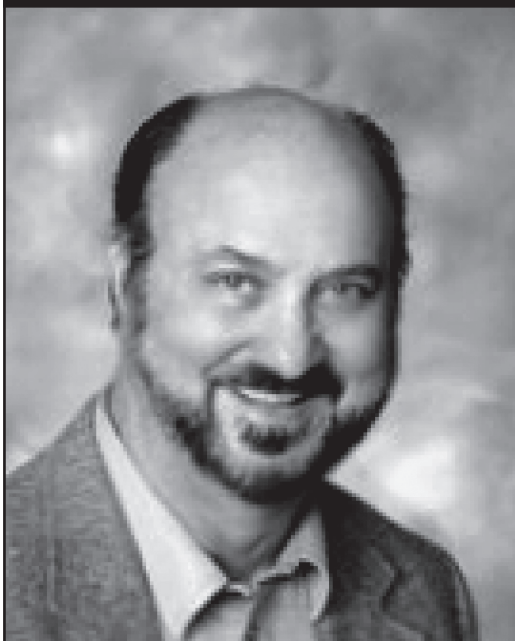
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the Catalyst

A Publication of the Philadelphia Section of the ACS
<http://membership.acs.org/p/philadelphia>

September 2009

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ADVANCE NOTICE

OCTOBER MEETING

PHILADELPHIA SECTION AWARD

Dr. Eric Borguet

Department of Chemistry, Temple University

Tuesday, October 20th (NOTE: not Thursday)
Temple University

See the October *Catalyst* for details,
call the Section Office at 215-382-1589, or email PhilaACS@aol.com

From The Chair

Robert A. Gates



As I write this month's column I am very happy to say that I am finally officially retired from my job as a Chemist for the Agricultural Research Service of USDA after 36 years of service. It was a great career working in the lab with some of the brightest, most interesting and friendly people I have met on some truly fascinating projects, all in the service of the people of the United States.

In that particular vein, my wife, who works for FDA, and I were recently invited to speak at a program given at Ryder College in New Jersey, where we represented folks with Chemistry degrees who work for the government. This excellent program consisted of presentations by speakers representing a very wide variety of possible careers that are available to students who graduate with a degree in Chemistry. It is important to realize that lab work is not the only use for a Chemistry degree. While my wife and I are primarily laboratory chemists—we call ourselves lab rats—there are many different paths available to people with Chemistry degrees and this program allowed attendees to hear a presentation and then interact with people in these different careers. The program was also a great opportunity for people who are considering a change in their current career paths.

The all day program included speakers representing careers in: Academia, with teachers from the high school through the college levels, Medicine, Science Communication, Flavor Chemistry, Government, Law, Chemical Sales, History of Science, Food Science, Chemical Consulting, Pharmaceuticals, Forensics and Fragrance/Cosmetic Chemistry. Our Government presentation represented the research (ARS) and the enforcement (FDA) arms of Federal work. In this current economy, I urge any of

our members who are looking for positions to be flexible and to look beyond the positions they currently occupy or have occupied to some of these other types of jobs. They may actually find areas of Chemistry they never before considered but will actually enjoy more. Again, ACS is a good resource for job searching and for government jobs—check out the website www.usajobs.gov. I wish our members all the best in their job search and hope they find a career that has been as enjoyable and fulfilling as mine was.

NEWS ATOMS

Michael Klein, Hepburn professor of physical science in the chemistry department of the University of Pennsylvania, was elected to the National Academy of Science.

Denise Creedon was named vice-president of institutional advancement at the Chemical Heritage Foundation.

DEATHS

Theodore Levenson, retired chemist and toxicologist, March 1st at 94. He was employed by Schering and Ciba in the steroid chemistry field. During WWII he was an officer in the chemical warfare service. He joined Industrial Toxicology Laboratories in 1953 and retired in 1989.

Edward Martin Phillips, Jr., April 2nd at 74. No further details available.

Harold C. Young, retired chemist with Rohm and Haas, April 19th at 92. He worked for a couple of pharmaceutical companies, and then General Chemical and Noma Electric. He joined Rohm and Haas in 1947 where he worked on acrylic polymer applications research, retiring in 1976. Young continued to do consulting for a number of years.

Charles Franklin Goodale, retired chemist formerly with DuPont, April 25th at 93. He joined DuPont in 1941 and worked at a munitions plant during WWII. He was transferred to marketing and held a number of sales and management positions, retiring in 1982 with 41 years service. He was past president of the Philadelphia Chemical Club. Goodale was active in the Optimists and was named USA Optimist of the year in 1959 by Optimist International.

Joseph L. Rabinowitz, professor emeritus of biochemistry at the University of Penn's school of dental medicine, May 28th at 85. His specialty was lipids metabolism. For almost 40 years he was chief of radioisotope research at Veterans Administration Hospital, and for more than 50 years served on the Institutional Review Board for the Protection of Human Subjects at the Philadelphia Veterans Affairs Medical Center.

Barbara Hodsdon Ulylot, former secretary of the Philadelphia Section ACS, June 17th at 83. Barbara Hodsdon was named executive secretary of the Philadelphia Section in 1954 and in 1965 transferred to the national ACS office in Washington, DC where she worked until retiring in 1989. Her first husband Richard Hodsdon died in 1949. She later married Glenn E. Ulylot, research chemist with Smith, Kline & French, who predeceased her in 2002.

Barbara was a dedicated volunteer with the ACS Project SEED, and she and Glenn established the Ulylot Project SEED Scholarship. They also sponsored the Glenn E. Ulylot and Barbara Hodsdon Ulylot Scholarship for historical research at the Chemical Heritage Foundation. In recent years she presented the Philadelphia bowl to the Ulylot Public Affairs lecturers.

Ralph F. Hirschmann, medicinal chemist, professor and research executive, June 20th at 87. He joined Merck Laboratories in 1950, and his research team announced the synthesis of ribonuclease in 1969. He served as research director at Merck 1971-1978. His research teams also helped develop new pharmaceuticals including Mevacor, Vasotec, Proscar, Primaxin, and Ivermectin.

In 2000 he was awarded the National Medal of Science. He was named senior vice president for basic research at Merck and retired in 1987, at which time he joined the University of Pennsylvania chemistry faculty. He was Rao Makineni professor of bioorganic chemistry, and also taught at the Medical School of South Carolina for 12 years. He authored over 150 technical papers and was inventor or co-inventor on nearly 100 patents.

Stanley C. Bell, chemist and industry executive, June 27th at 78. He was employed as a research chemist from 1954 to 1959 at Merck Sharp & Dohme and then moved to Wyeth Laboratories where he worked from 1959 to 1982, rising to manager of medicinal chemistry. He then joined Johnson & Johnson as director of medicinal chemistry, retiring from the R.W. Johnson Pharmaceutical Research Institute in 1995, where he was senior director of drug discovery.

From 1995 to 1999 he was with a start-up company and then, with his wife, formed a consulting business. In 2001 he joined Onconova Therapeutics and was senior vice president of R&D at time of death. He also was adjunct professor at the Fels Institute for Cancer Research and Molecular Biology at Temple University. Bell was past secretary and chairman of the ACS division of medicinal chemistry, and was also a division councilor. He authored over 50 publications and more than 170 patents. At the time of his passing, Bell was chairman of the Philadelphia Section's Chemical Consultants Network.

Kathryn E. Sheehan, former research chemist for Sun Oil and a teacher, July 17th at 96.

Note: News Atoms seeks to report on people in the field of chemistry in the greater Philadelphia area. If you have news about new hires, significant promotions, honors and awards, and those who have recently passed away, send it by email to philcatalyst@aol.com or by mail to the Philadelphia Section ACS.

PHILADELPHIA SECTION ACS FELLOWS

The following Section members are included in the first class of ACS Fellows which was recognized on August 17 at the ACS national meeting in Washington: Ahmed F. Abdel-Magid, Paul S. Anderson, Franklin A. Davis, Michelle M. Francl, Catherine T. Hunt, Madeleine M. Joullié, Bruce E. Maryanoff, Cynthia A. Maryanoff, Amos B. Smith, III.

CHEMICAL CONSULTANTS NETWORK

Visit our *NEW* web page at www.chemconsultants.org

Date and Time: September 9th, at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Forum and Business Session, 7:30 PM.

Speaker and Topic: Trudy Heller, PhD—*The Business of Sustainability: Opportunities for Consultants.*

Abstract: Increasingly companies no longer think of environmental performance as just about compliance, and are integrating environmental stewardship into business strategies, operations and product designs. Awareness that greening initiatives can create competitive advantage has reached a tipping point in the business community.

Emerging from this awareness are new ways of doing business that are both profitable and environmentally sound. These new business models are also creating opportunities for consultants.

Biography: **Trudy Heller** is founder and President of Executive Education for the Environment. A 25-year experienced consultant and master business educator, she prepares business to compete in a resource constrained world. A Wharton School PhD and former professor of business strategy, Dr. Heller creates speeches, workshops and training programs for companies, universities and government agencies.

Location: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004.

Reservations: To make or cancel a dinner reservation, e-mail CCNReservations@aol.com or call the ACS office at 215-382-1589 (leave message on voice mail if necessary). Fee, including food and beverages (wine, beer and sodas), is \$25 by the deadline, Thursday, September 3rd, \$35 afterwards. Late reservations and walk-ins subject to availability. No-shows will be invoiced. Dietary restrictions accommodated on a limited basis. There is no charge for talk only; registration is suggested using contact information above.

2009 ELECTION SLATE

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Check the Section website at <http://membership.acs.org/p/philadelphia> for information about entering the NCW Poster Contest, Philadelphia Section NCW activities and resources for celebrating National Chemistry Week.

SEPTEMBER MEETING

The Philadelphia Section,
American Chemical Society
presents

DR. ARA DERMARDEROSIAN
Professor of Pharmacognosy and Medicinal Chemistry
University of the Sciences in Philadelphia

*Natural Products, Here to Stay:
Problems and Challenges of their Analysis*

Thursday, September 17, 2009
7:00 PM

Room 2000, Vagelos Laboratories
(enter through main Chemistry entrance on 34th Street)
Department of Chemistry
University of Pennsylvania
231 South 34th Street
Philadelphia 19104

Light informal dinner at 6:00 PM

Dinner cost \$8; Students with reservations and ID: \$4

RESERVATIONS should be made by calling Mrs. Libby Harper at the Section office, 215-382-1589, or emailing PhilaACS@aol.com by **5:00 PM** on **Thursday, September 10th**. **Cancellations**, if necessary, cannot be accepted after **NOON** on **Tuesday, September 15th**. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

DIRECTIONS: Enter the Vagelos Laboratories through the main Chemistry entrance on 34th Street.

PARKING is available for \$13 in the University of Pennsylvania garage on 34th Street. Going south on 34th past Market Street, turn left into the garage just past Ludlow Street, before reaching Chestnut. A Drexel University garage is available for \$12 on Ludlow Street; turn left off 34th just before the Penn garage. Metered street parking may also be available.

The Board of Directors will meet at 4:00 PM in Vagelos Room 2000.

SPEAKER'S ABSTRACT AND BIOGRAPHY

Dr. Ara DerMarderosian

Natural Products, Here to Stay: Problems and Challenges of their Analysis

**Professor of Pharmacognosy and Medicinal Chemistry
University of the Sciences in Philadelphia**

Abstract: This presentation will be a brief overview of the challenges of critical herbal analytical methods and concerns related to efficacy, safety, toxicology and monitoring programs needed for botanical dietary supplements. Emphasis will be given to the continued need to bring together the best multidisciplinary sciences and skills of botany, genetics, chemistry and pharmacology in order to accurately assess the quality of natural product pharmaceuticals.

Biography: Dr. Ara DerMarderosian graduated from Somerville High School, Somerville, MA in 1952. He attended the Massachusetts College of Pharmacy and graduated with a BS in 1956. In 1957 he received a fellowship in the Department of Biological Sciences and after completing graduate studies in 1958, received an MS in pharmaceutical chemistry. During the summer months he completed a six-month training program with the US Army National Guard. He was stationed at Fort Sam Houston, TX and earned the military occupational specialty of Medical Specialist.

After spending another year of study at the Massachusetts College of Pharmacy working under an industrial grant from the Sterling-Winthrop Laboratories, he enrolled in the Graduate school of the College of Pharmacy at the University of Rhode Island as a graduate assistant. Here he continued his graduate studies and served as a graduate assistant in both Pharmaceutical Chemistry and Pharmacognosy. During this time he was awarded a summer fellowship award for teaching in chemistry at the National Science Foundation and was later appointed as a

research assistant under a National Institutes of Health research grant. He completed the requirements for the PhD in pharmaceutical chemistry at the University of Rhode Island in June 1964.

From 1964 to the present, Dr. DerMarderosian has been Professor of Pharmacognosy and Research Professor of Medicinal Chemistry in the Departments of Biology and Chemistry of the University of the Sciences in Philadelphia. He received a joint appointment as Research Professor in Medicinal Chemistry in the Department of Chemistry in 1979. He also is the Scientific Director of the University Complementary and Alternative Medicines Institute. From 1965 to 1995 he was a lecturer in pharmacology, Department of Physiological Sciences, Pennsylvania College of Podiatric Medicine and Adjunct Associate Professor of Pharmacology, University of Pennsylvania School of Veterinary Medicine. He was the Science Advisor to the Philadelphia District FDA Laboratories for a decade.

Dr. DerMarderosian's research interests include hallucinogenic botanicals, medicinal and poisonous plants, and their phytochemistry and pharmacology, marine pharmaceuticals, drugs of abuse and nutraceuticals. He has over 100 publications and chapters in books and 2 texts. He is the senior editor of the *Review of Natural Products* published by Facts and Comparisons. His avocations include amateur magic, bicycling, gourmet cooking, scrimshaw, jewelry making, pharmaceutical and botanical philately and music—he formerly played with the Boston Orientales and Hellenic String Band as clarinetist and oud (lute) player. He plays regularly at the folk music affairs. He is listed in the Pennsylvania State Folklife Program as a traditional Armenian Music performer.

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THE CATALYST GOES GREEN

Yes. It is true. *The Catalyst*, the renowned and beloved publication of the Philadelphia Local Section of the American Chemical Society, is going to start saving the trees needed to print its issues, starting with the January 2010 issue. What this means to you, our members and subscribers is that as of this date *the Catalyst* in its entirety will be found exclusively at membership.acs.org/p/philadelphia and you will be notified, by email, when the new issue is on the website. Be sure your email address listed with the National ACS is up to date to ensure no gap in delivery (email service@acs.org and include your membership number). For those of our members who wish to continue receiving a printed copy or who do not have internet access, a very limited number will continue to be printed and mailed. This service will be available at a cost of \$15 per year which defrays the printing, shipping and handling charges and is what other ACS locals are charging for comparable newsletters. However, if you have internet access please consider accessing *the Catalyst* online. It will help the planet in a small way, since every little bit helps, and will also cut our expenses, a major concern in the present economy. For those of you who still prefer printed copies, please send your request to the Philadelphia ACS office address on page 107 of this copy or email - PhilaACS@aol.com.



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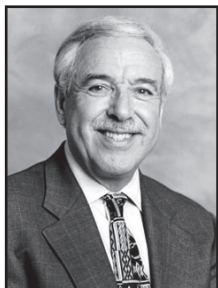
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Dr. George A. Frank



Dr. Frank is Of Counsel at Drinker Biddle & Reath LLP and Chairman of its Licensing and Technology Transfer Practice Team. Prior to joining the firm in 2001, Dr. Frank was Corporate Counsel for E. I. du Pont de Nemours and Company, worked as a senior corporate scientist for Thiokol Corporation, as a laboratory head for Borden Chemical Company, and as a group leader at Rohm & Haas. During this time, he also served as an adjunct professor of organic chemistry at the University of Pennsylvania.

Dr. Frank graduated *summa cum laude* with a BS in Chemistry from Colorado State University in 1960, received his PhD in Organic Chemistry from the Massachusetts Institute of Technology in 1965, and received his JD *cum laude* from Temple University School of Law in 1977.

He has had published a number of law articles, has been published in both scientific peer-reviewed and patent publications concerning organic and polymer chemistry, and has spoken on numerous occasions before national and international bar groups.

Dr. Frank is active in the American Bar Association and past member of its Council. He is a member of the American Intellectual Property Law Association, of the Philadelphia Intellectual Property Law Association and its past president, and a member of the Benjamin Franklin American Inn of Court, where he is a past president. He is admitted to practice in Pennsylvania and the District of Columbia, and before the US Supreme Court, and the US Patent and Trademark Office. Dr. Frank is a biography in *Who's Who*.

Dr. Frank loves to travel with his wife, children and grandchildren and plays tennis and squash.

Dr. Carl F. W. Wolf

My professional odyssey extends from chemical engineering education (MIT SB 1953 SM 1954), to Professor Emeritus of Clinical Pathology and Laboratory Medicine at Cornell University in NY City. After MIT, ROTC led to two years in Army Medical Service Corps, Surgeon General's Environmental Health Laboratory in radiation protection. Next came DuPont's Experimental Station, Wilmington for eight years in the Polychemicals/Plastics Department. As an engineer with PhD chemists, we studied extrusion processes and looked for uses of ethylene copolymers, especially ethylene methacrylic acid and the newly discovered "ionomers," in packaging film and cable insulation.

After eight DuPont years, I attended medical school at Philadelphia's Hahnemann Medical College, received a MD, while returning summers to DuPont to market research dialysis treatment of kidney failure using hollow textile fibers DuPont recently developed. Next came The New York Hospital/Cornell Medical Center, NY City for four years residency training in pathology and laboratory medicine with subspecialization in Blood Banking. I have spent my medical career at Cornell doing clinical work and teaching as Director, Blood Bank Laboratory and Chief, Transfusion Medicine, while simultaneously consulting at New York Blood Center on application of bar codes to blood products and codes used in the hospital environment, and doing R&D on my concept of bioartificial liver support of patients with liver failure using cultured liver cells grown on hollow fibers. I demonstrated that concept in the Gunn rat before turning my attention wholly to clinical responsibilities as the subspecialty evolved into Transfusion Medicine and Cellular Therapy.

As I have wandered in the wonderland of biological and medical science's evolution into increasingly physical scientific disciplines, I have benefitted greatly from my ACS membership and *Chemical and Engineering News*, enjoying sharing that publication with my colleagues in medicine.

THE JOSEPH PRIESTLEY HOUSE

Joseph Priestley, the man who discovered oxygen and the father of chemistry in this country, lived the final years of his life in Northumberland, PA. The Joseph Priestley House in Northumberland was designed by Priestley and built under his supervision. It contains the laboratory in which he discovered carbon monoxide. The site is administered by the Pennsylvania Historic and Museum Commission and, because of budget considerations that pre-date this year's budget crisis, it was scheduled to close to the public this summer.

Joseph Priestley was a mentor of Benjamin Franklin. He was a guiding force in Franklin's experiments with electricity and lightning and it was Priestley who popularized the image of Franklin flying a kite in an electric storm. In addition to his discovery of oxygen in 1774, he made other enormous contributions to chemistry and many of his important experiments occurred in this house in Northumberland.

Priestley was a scientist, theologian, and educational and political thinker who strongly influenced the thinking of Thomas Jefferson and other founding fathers. His thoughts on education, social philosophy and politics resonated throughout the 19th century in this country and influence our society up to this day.

While not the birthplace of the American Chemical Society, Priestley's house was the place of its inception. A meeting of American chemists at the house in 1874 on the 100th anniversary of Priestley's discovery of oxygen led to the formation of the ACS in 1876.

The *Friends of Joseph Priestley House*, a non-profit organization that works to support the Priestley House, is working with the Museum Commission to develop a management plan under which operation of the site and its financial support would be borne by the *Friends*.

To continue to provide the educational and historic functions of the site, the *Friends of Joseph Priestley House* needs the financial support of all chemists. The Joseph Priestley House is a jewel that chemistry cannot afford to lose. Contributions should be sent to *The Friends of Joseph Priestley House*, 472 Priestley Avenue, Northumberland, PA.

—Alan R. Heldon, Chair, PA Government and Legislative Affairs Committee

610th BOARD OF DIRECTORS MEETING

Thursday, April 16, 2009
MacAlister Hall, Drexel University,
Philadelphia, PA

This is the edited version of the minutes. A full copy of the minutes can be obtained from the Section Office.

Present: C.J. Bruner, D. Cichowicz, D. Cook, J. Crawford, A. DeMasi, R. Ewing, R. Gates, M. Matthews, J. Summers-Gates, K. Thrush Shaginaw, J. Tierney, V. Tortorelli, T. Straub, W. Smith, K. Yoder.

Excused: M. Cichowicz, E. Davis, S. Miller, A. Dent, C. Petucci, D. Thomas.

Also Present: L. Harper, J. Cohen, A. Heldon, D. Hausner.

The meeting was called to order at 4:05 PM by Chair Gates. The minutes for the March meeting were approved.

COMMITTEE REPORTS:

Awards Committee: Announced choices for the Section teaching awards. High School Teacher: Dr. Barbara Kreider of Moorestown Friends School; Undergraduate Teacher: Dr. Frances Rose Blase of Haverford College.

OFFICERS' REPORTS:

Chair: R. Gates announced that the speaker for the May meeting would be Dr. Susan Jansen Varnum from Temple University.

Chair-Elect (J. Summers-Gates): A Nanoexpress site visit may not be a viable option. Work is still being done to arrange a Career Services program with Princeton and Trenton AWIS for a joint event.

Secretary (J. Tierney): no formal report.

Treasurer: C.J. Bruner reported that there was a slight error on line 1030 in her report with a missing '2'. The value should have read '25' and not '5.'

It is now proposed that a change for the January poster program event be made to charge a fee to the presenters in addition to the present charge only to the visitors. This will alleviate any future budget issues.

OTHER BUSINESS:

J. Cohen indicated that the Section was successful in putting forth nominations for the ACS Fellows program awards.

Alan Heldon forwarded a resolution to keep the Joseph Priestley house open in Northumberland, PA the house is slated for closure. The resolution will be forwarded to the PA State legislature to ensure funding for such an historic treasure.

K. Thrush Shaginaw indicated that the April 4 PAGES meeting had 123 students attending from 39 schools, along with 55 volunteers. There were 40 students who would have liked to attend but were unable due to space considerations. Two students were present with a visual handicap who discovered that they could still participate. Dr. Julia Plummer, Arcadia, was the keynote speaker. The sad loss of Grace Banks (March 30, 2009) was announced and the event was held in her honor.

T. Straub indicated that the Chemical Olympiad Exam was to be held April 18, 2009 at La Salle University. There will be 23 finalists invited from 432 original participants.

There being no further business the meeting was adjourned at 5:10 PM.

Respectfully submitted,

John Tierney, Secretary



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- ◆ Ash ◆ Metals ◆ TOC ◆ TOX
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PHILADELPHIA SECTION, ACS 2009 CALENDAR OF EVENTS

DATE	EVENT	LOCATION
Sept 11	Chemical Consultants Network: Trudy Heller, Wharton School: <i>The Business of Sustainability: Opportunities for Consultants</i> , http://chemicalconsultants.com	Bala Cynwyd Club Bala Cynwyd, PA
Sept 14	Delaware Valley Mass Spectrometry Discussion Group: Heana Cristea, Princeton University: <i>MALDI-Orbitrap for Protein Analysis</i> , http://science.widener.edu/svb/msdg	Villanova University Villanova, PA
Sept 18	Dr. Ara DerMarderosian, University of the Sciences: <i>Natural Products, Here to Stay: Problems and Challenges of their Analysis</i>	University of Pennsylvania Philadelphia, PA
Sept 24	Philadelphia Organic Chemists Club: Janis Louie, Univsity of Utah: <i>The Versatility of Nickel Cycloaddition Catalysts</i> , The Allan R. Day Award www.pocclub.org	University of Pennsylvania Philadelphia, PA
Oct 12	Delaware Valley Mass Spectrometry Discussion Group: John Erve, Wyeth <i>Applications of Orbitrap MS in Drug Discovery and Development</i> http://science.widener.edu/svb/msdg	Villanova University Villanova, PA
Oct 14	25 th Annual AstraZeneca Excellence in Chemistry Award, www.astrazeneca-us.com/research-and-development/excellence-in-chemistry	Wilmington, DE
Oct 20	Philadelphia Section Award Dr. Eric Borguet, Temple University	Temple University Philadelphia, PA
Oct 18-24	National Chemistry Week "Chemistry—It's Elemental!"	All Over the Delaware Valley
Nov 19	Ulliyot Public Affairs Lecture: Dr. Joseph DeSimone, University of North Carolina	Chem. Heritage Foundation Philadelphia, PA
Dec 12	Herb Bassow Memorial Chemistry Demonstrations and Hands-on Activities	TBA



50-Year Honorees. Rear, l. to r.: Dr. John Baldwin, Dr. Marshall Fishman, Earl Sullivan, Dr. Janice Taylor Gordon, Dr. Francis Pfeiffer, Dr. Vaidyanath Mahadevan, Frank Sanderson, Dr. Bruce Hwang, Dr. William Ambs.
Front, l. to r.: William Gannon, Dr. Jenny Glusker, Dr. Sheldon Dean, Hank Whalen.