the Catalyst

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

June 2013
Volume 98, No. 6

JUNE MEETING
Larry Horwitz
Regional Brewer, Iron Hill Brewery

HIGHLIGHTS

Chair's Column 115

Speaker's Biography 117

Fifty-Year Members 120

Scholastic Achievement Award Winners 135

National Historic Chemical Highlights 137

Philadelphia Science Festival Photos 138

Calendar 141

A D V A N C E N O T I C E

SEPTEMBER MEETING

Thursday, September 19, 2013

TBA

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

the Catalyst

ACS Philadelphia Section

Founded April 15, 1899

CONTENTS

September Advance Notice 113
From The Chair 115
June Meeting 116
Speaker's Biography 117
News Atoms 118
Photo of Scholastic Achievement Award Winners 119
Honoring Our 50-Year Members 120
Members Also Celebrating 50 Years 132
Members Celebrating 60 Years 132
Photo of Teaching Awardees at the May Meeting 133
Summer Networking Event 133
Chemical Consultants Network 134
Scholastic Achievement Award Winners 135
Announcing a YCC Council 136
Work for ACS 136
National Historic Chemical Landmarks 137
Photos from the Philadelphia Science Festival 138
Section Awards for Excellence in Teaching 139
Directory of Services 140
Current Calendar of Activities 141

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

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

From The Chair

J.P. Northrop

This month we celebrate longevity….the days are still getting longer and we are just getting used to the warm summer days of Philadelphia.

Every June, the Philadelphia Section celebrates members who have held their membership with the American Chemical Society for 50 and 60 years. That alone is quite an achievement, but when you look at the work that these chemists have done, not only here in Philadelphia, but around the world, it is humbling to say the least.

These members have had careers built on the search for fundamental knowledge, building compounds never seen before, improving the chemistry of our everyday lives, and finding breakthrough medicines that save and improve lives. Each of these honored members has contributed to our knowledge as scientists and it is upon their shoulders that we can stand today as chemists. Our research now is only achievable because of the years of hard work, research and service of these members.

In celebration of their efforts and support over the years, the Philadelphia Section will be honoring them in two ways. First, a luncheon will be given for them at the Iron Hill Brewery in Chestnut Hill on June 20th (see announcement herein). I would encourage all who are able to attend to come to this luncheon and say "Thank you."

Secondly, as some of you know, I am a home brewer and supporter of local craft breweries in the Philadelphia region. With Paul Rutherford, head brewer at Iron Hill-Chestnut Hill, we are brewing a specialty "Alchemist's Ale" for the event. It will be on tap at the Iron Hill Chestnut Hill as long as the beer is around and then it will be gone forever (or until we do it again next year).

I encourage all members to come out on Thursday, June 20th to Iron Hill, raise a pint of Alchemist's Ale, and congratulate and thank the 50 and 60 year members of this great organization.

Alchemist

Ale

Just a reminder, *the Catalyst* and the Board of Directors will be taking the next couple months off for the summer and we will be back at work in the fall. I am still around, so if there is anything that you would like to bring up, please feel free to email me at john.northrop@anton-paar.com.

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

JUNE MEETING

Larry Horwitz
Regional Brewer, Iron Hill Brewery and Restaurant

The Chemistry of Beer

and

Honoring Our 50- and 60-Year Members

with

Presentation of 50- and 60-Year Certificates

Thursday, June 20, 2013

1:00 PM

Luncheon at 12 Noon
(Including a special Alchemist's Ale by J.P. Northrop)
Iron Hill Brewery and Restaurant
8400 Germantown Avenue
Chestnut Hill, PA 19118

Luncheon cost $35; Students with reservations and ID: $18

RESERVATIONS should be made by calling Mrs. Harper at the Section Office, (215) 382-1589, or emailing PhilaACS@aol.com by 5:00 PM, Thursday, June13th. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, June 18th. UNCANCELLED RESERVATIONS WILL BE BILLED.

DIRECTIONS and PARKING: http://www.ironhillbrewery.com/chestnuthill/directions.htm

The Board of Directors will meet at 2:30 PM at Iron Hill.

SPEAKER'S BIOGRAPHY

Larry Horwitz
Regional Brewer, Iron Hill Brewery and Restaurant

Larry Horwitz is Regional Brewer for the Iron Hill Brewery and Restaurant. He has been a professional brewer since 1992 and has worked for Iron Hill since 2004. He attended The Ohio State University and is a graduate of both the MBAA Malting and Brewing Science Program at the University of Wisconsin, Madison and the American Brewer's Guild Brewery Science and Engineering Program. He has worked for craft breweries all over the United States. He is an experienced beer judge who has won awards at the Great American Beer Festival, the World Beer Championships, and the World Beer Cup. He teaches courses annually on brewing, judging beers and sensory analysis. He is president of the Master Brewer's Association of the Americas Philadelphia district, and was a William R. Hipp scholarship recipient. Iron Hill Brewery has 10 locations in Pennsylvania, New Jersey, and Delaware and was chosen Great American Beer Festival Large Brewpub of the Year for 2005, World Beer Cup Large Brewpub of the year 2010, and World Beer Cup Small Brewpub of the year 2012. He enjoys anything that involves beer and food, collects stainless as a hobby, and loves to brew beer, drink beer, and talk about beer.

NEWS ATOMS—*Alan Warren*

The University of Pennsylvania's chemistry department recently expanded its High Throughput Experimentation (HTE) lab with two new instruments—a mass-directed liquid chromatograph and an ultra-performance liquid chromatograph. The lab works on NIH funded projects in conjunction with Merck and Company. Principal investigators are chemistry professors **Marisa Kozlowski**, **Gary Molander** and **Patrick Walsh** of Penn and **Spencer Dreher**, head of process chemistry automation at Merck.

Penn's **Daeyeon Lee**, assistant professor of chemical and biomolecular engineering, received a 3M non-tenured faculty award for his work in the department's soft nanomaterials lab. Assistant professor of inorganic and materials chemistry **Eric Schelter** received a Cottrell scholar award from the Research Corporation for Scientific Advancement in recognition of scientific research and dedication to teaching. Professor of materials science and engineering and chemical and biomolecular engineering **Karen Winey** was named a 2013 Materials Research Society fellow for contributions to the understanding of polymer nanocomposites and distinguished leadership in the materials community.

DEATHS

Raymond J. Mannella, October 22, 2011 at 85. He was an ACS member for over 50 years. No other details are available.

Arthur H. Seidel, intellectual property lawyer, August 16, 2012 at 89. He joined a research team at Columbia University in 1943 and worked on the Manhattan Project. After he obtained his law degree he worked in the patent department of Gulf Oil from 1947 to 1952. He then became a founding partner in the law firm of Seidel, Gonda, Lavorgna & Monaco, retiring in 2001. He taught intellectual property at Temple University's law school and was author or co-author of several books on patents, trade secrets, trademarks and copyrights. Seidel was an ACS member for over 60 years.

F. Gardiner Pearson, research chemist, April 3, 2013 at 98. He was hired as a research chemist by American Viscose, retiring in 1976 as head of FMC's research and production facility in Marcus Hook. He was a 61-year member of ACS.

James J. Markham, retired chemistry professor, April 4th at 84. He joined the faculty of his alma mater Villanova University in 1952 as a lecturer. In 1965 he took a sabbatical in Leeds, England to conduct research at the university. Markham returned to Villanova in 1966 and in 1968 was named associate dean for sciences. He retired in 1990. In 2001 he was awarded the Villanova Alumni medallion for graduates who have excelled at their profession.

John J. Clutz, former chemical industry executive April 22nd at 81. He worked for Procter & Gamble and then moved to Rohm and Haas in 1958 where he was later named president of Rohm and Haas Canada and then business director of the firm's Latin America division.

David S. Coulter, retired chemical engineer, April 24th at 76. He had a 38-year career in DuPont's textile and fibers division, including a 5-year assignment in Switzerland. He then worked as a project manager for Raytheon and Verizon.

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.

SCHOLASTIC ACHIEVEMENT AWARD WINNERS AT THE APRIL MEETING

Front, left to right: Matthew McBride, EuTchen Ang, Matthew Smith, Ashley Truxal, Jaleesia Amos, Joseph Dalessandro, Allyson Kriebel.

Rear: Nicolas Kirkland, Alex M. Confer, Heui Beom Lee, Nicholas Williams, Chelsea Merkel, Geoffrey Eill, Caitlin McRae, Ali Elizabeth Raeber, Jacob Schreiber Tracy, Melissa Grenier.

HONORING OUR FIFTY-YEAR MEMBERS

At our June Section meeting, we honor our 50-year members, presenting them with a certificate and luncheon at the Iron Hill Brewery and Restaurant in recognition of their long and faithful service to the Society. Those being honored include the following:

DR. THOMAS M. BARE

Born in Lancaster, PA, I spent most of my childhood near the farm where my father worked. My first large-scale chemical reaction (carried out as a teenager) was the formation of huge quantities of hydrogen cyanide gas to fumigate the farm warehouses where dried sweet corn was stored. This was a particularly dangerous endeavor which involved dropping paper bags full of sodium cyanide pellets into crocks of sulfuric acid spaced at regular intervals throughout the warehouse. After high school, I attended Penn State University, receiving a BS in Chemistry (1964), and then the Massachusetts Institute of Technology for a MS and PhD (1969) in organic chemistry under the guidance of Herbert O. House.

Desiring to work at a small company, I accepted my first post graduate job at Lakeside Laboratories (Milwaukee, WI), a small pharmaceutical company owned by Colgate Palmolive. Colgate sold Lakeside to Richardson Merrell Pharmaceuticals in 1976. Not wanting to go to Merrell, I obtained a position in the pharmaceutical division of Imperial Chemical Industries (Wilmington, DE) and remained there (through several name changes/merger: ICI United States, ICI Americas, Zeneca and finally AstraZeneca) until early retirement in 2000. During my career, my research teams and I introduced eight compounds into development for the treatment of anxiety, asthma, hypertension, stroke and pain. After retirement, I obtained an adjunct faculty position at Villanova University where I organized, taught and coordinated undergraduate organic chemistry laboratory for non-chemistry majors for 7 years until 2012.

I keep active as a volunteer for the Penn State Master Gardener program as well as the community outreach food provider program of our church. I also enjoy gardening, do-it-yourself projects and being with our three daughters and their families. My wife Ann and I celebrated our 45th wedding anniversary last year and we reside in West Chester, PA.

DR. PAT BROWN

Dr. Brown was born and raised in North Tonawanda, NY, which is north of Buffalo and about 12 miles from Niagara Falls. He was the son of Thomas Frank and Elizabeth Bernice Brown. He graduated from Erie County Technical Institute with an AD in Industrial Chemistry.

He transferred to the University of Mississippi where he received his BS in Chemistry in 1960. In 1959 he married Carol Ann Ortt who provided loving support to him throughout his studies and their entire marriage. Following Ole Miss., he enrolled in the Doctoral Program at Syracuse University where he earned his PhD in Physical Inorganic Chemistry.

This was followed by a postdoctoral program at the University of Buffalo studying the kinetics of inorganic reactions.

He joined W.R. Grace's Corporate Research Center in 1966 working in the areas of catalysis and construction materials. He developed numerous products and processes while with Grace and a number of them were patented. He later joined Foote Mineral Company as Manager of Research and later became Director of Research and Engineering.

While at Foote Mineral Company he developed numerous products and processes for the company. The most notable achievement was development of the lithium recovery process from the Salar De Atacama in northern Chile at the base of the Andes Mountains. An evaporation process was used to concentrate the lithium in the brines while removing sodium, potassium and magnesium salts and recovering potash. The concentrated brine containing the lithium was then sent to Antofagasta on the coast for final purification and precipitation as lithium carbonate. It is the lowest cost process in the world and the major source of all lithium chemicals and metal for numerous applications including lithium batteries, Corningware, lithium greases and pharmaceuticals for manic depression.

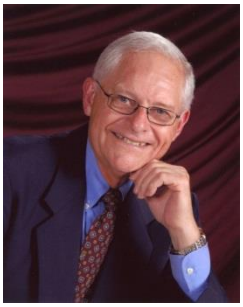
He was the developer of high purity lithium carbonate for the pharmaceutical and electronics industry and an electrolytic process for production of lithium hydroxide from brine-sourced lithium chloride. In addition, he holds patents for recovery of zinc from the geothermal brines of Imperial Valley California and as President of the Fuel Cell association he testified before US Congress for funding of Fuel Cells (see 2015 Chevrolet Volt).

He joined Cabot Corporation in 1992 as assistant to the president of the Supermetals Division where he developed numerous processes for production of products of tantalum, niobium and cesium metals and chemicals. Of note was the process for extraction of Cesium from Pollucite ores of Manitoba, Canada and production of cesium formate. Cesium formate, a heavy liquid (2.3 g/cc), is used for down hole oil well drilling. It was the basis for Cabot's Specialty Fluids Division. He holds over 40 US and worldwide patents including ones for recovery of uranium, thorium and scandium from tantalum recovery residues.

In 1996, Dr. Brown set up New Tech International, Inc. a world-wide consulting firm, where he acted as president and chief operating officer. His wife Carol was chief financial officer of the company. Through his business he consulted with companies from the US to Japan, China, Australia, New Zealand, Chile and throughout the world.

Dr. Brown and his wife Carol had four children, Brian Patrick, Cynthia Elizabeth, Kevin Michael and Timothy Sean and 9 grandchildren, Lisa, Sean, Megan, Caroline, Morgan, Zachary, Samantha and Katelyn, all living in and around their home in Exton, PA area. They also have a home in Vero Beach, FL where they winter.

DR. DWIGHT P. DAVIS



Dwight was born and raised on a dairy farm in southern Indiana. After high school, he attended Indiana University and graduated with a BS in Chemistry in 1964. He then entered a doctoral program in Organic Chemistry at the University of Colorado; however the need for young men to be drafted for service in Viet Nam interceded. Dwight chose to join the Navy and entered the flight program at Pensacola, FL. He earned his pilot wings in 1967, married his college sweetheart during Christmas leave that year and shipped off to Viet Nam aboard the carrier, USS Coral Sea. He spent the next several months flying over the South China Sea. After he returned to the US, he taught Chemistry at the US Naval Academy.

Dwight earned his Doctorate in Medicinal Organic Chemistry, with honors, at Kansas University in 1977 and spent the next two years as a Staff Fellow at the National Institutes of Health. He joined Betz Laboratories as a Research Chemist, but soon became involved in regulatory issues. He eventually became vice president for environmental and regulatory affairs (EPA, FDA, OSHA, etc.) for North and South America, Europe and Asia. The company was eventually acquired by General Electric just prior to Dwight's retirement.

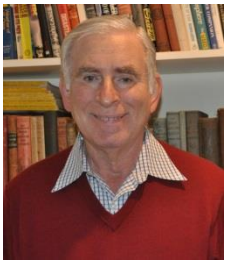
He then taught Chemistry at Chestnut Hill College and The College of New Jersey for a few years before retiring to help take care of the two grandchildren and do woodworking projects at his home in Bucks County, PA.

DR. HENRY R. DROTT

Dr. Henry R. Drott graduated from Southeastern Louisiana University in 1962 with BS in Mathematics and Chemistry. After receiving a PhD in Physical Chemistry from the University of North Carolina, Chapel Hill, in 1968, he arrived at UPenn in the Johnson Research Foundation for NIH postdoctoral fellowship with Takashi Yonetani. In fall 1970, he was invited to conduct research at the Karolinska Institute in Stockholm, Sweden. He returned to UPenn the following fall as a RCDA recipient and began his academic career in the Department of Biochemistry and Biophysics. In 1977, he was named the Director of Clinical Chemistry at Children's Hospital of Philadelphia, retiring in 2007. Major accomplishments were introducing HPLC analysis for the Therapeutic Drug Monitoring in pediatric patients, and Flow Injection Analysis for plasma ammonia levels for diagnosis of Reyes Syndrome. He developed a program for HbA1C testing while the patient was being seen by their clinician. He will never forget when a first grader told his lab technologist the reason that she liked coming to CHOP was her HbA1C was done while she was seeing her doctor and she hoped she would get a good report card! The last service he developed was whole blood lead testing using ICP Mass Spectrometry.

He and his wife Mary reside in Swarthmore, PA. They have two sons, Edward and Eric who are Penn graduates.

DR. RICHARD HANAUER



I grew up in Brooklyn, NY and graduated from Erasmus Hall High School. After graduating from Columbia University with a degree in Chemical Engineering in 1963, I obtained a PhD in Organic Chemistry from the University of Wisconsin.

My first job out of graduate school was with Rohm and Haas, Philadelphia as a Senior Research Chemist in their Fibers Product Development Group. After several years I transferred to their Spring House site to do research in oil and gasoline additives. The next area I worked in was Process Research where I developed new plant waste treatment systems for agricultural chemicals and biocides. The last research area I worked in was the Residue Metabolism and Environmental Fate Group, where I ran studies to get agricultural chemicals registered worldwide. I worked 33 years at Rohm and Haas, retiring in 2001.

I have many hobbies in retirement. I have run a weather station for 40 years, reporting online and to the NWS. My interests include travel, photography, and both indoor and outdoor gardening. I judge science fairs, take courses, spend hours on the internet, and play in a senior softball league. I have been married for 45 years to Arlene, have two children and three grandchildren.

DR. RONALD E. HESS

Born in Lock Haven, PA, Ron spent the first 22 years of his life in this small town on the banks of the West Branch of the Susquehanna River. He graduated from LHHS in 1956 and Lock Haven State College in 1960 with a major in chemistry/math education. Working at the local Sears catalog sales office during his college years allowed him to earn the dollars necessary to support his education, as well as to give him the opportunity to get a taste of the business world. This, however, created a dilemma regarding his future. Should he enter a manager training program with Sears or accept a faculty position at Cheltenham Senior High School in Wyncote, PA, teaching chemistry? After a few minutes of serious soul-searching, he chose the latter (at one-half the salary), his youthful idealism telling him that education would provide a better opportunity for him to change the world for the better than would retail.

After two years teaching high school seniors, Ron heard the siren call of higher education, which led him to Ithaca, NY, and the hallowed halls of the George Fisher Baker Laboratory of Chemistry at Cornell University in the fall of 1962. He thoroughly enjoyed spending two years as a graduate assistant in the general chemistry course and was fascinated by the research of Professor Donald Farnum, who was synthesizing and characterizing small cyclic molecules derived from arylketenes. As he was finishing his PhD work, another decision involving his future faced him. Should he accept an assistant professorship at Ursinus College or an offer from the Textile Fibers Division of DuPont at twice the pay? Again, idealism won out over money, and 47 years later, as the David Laucks Hain Professor of Chemistry, he is still teaching organic chemistry to Ursinus College undergraduates and still believing that education can transform the world for the better.

Away from the job, Ron's interests lie with his wife of 52 years (whose teaching job in Newfield, NY made Cornell a reality), two sons, two grandsons, and his Belgian Sheepdog, Montgomery—his constant companion and alter ego. He loves baseball, his camera, trains—both large and small—and Vermont. When will he retire? When he is no longer having fun!

DR. STEPHEN S. HIRSCH

It was clear from age eight that chemistry was to be my lifelong pursuit. As a youth I did a great deal of reading in the subject and amassed a substantial home laboratory. Undergraduate study at Brooklyn Poly was a privilege; a BS in chemistry there, which included a published thesis, was nearly equivalent to a master's.

Graduate school was at the University of Maryland under research professor William J. Bailey where my PhD thesis was in high-temperature chemistry. At my first job, I used this background to develop the fireproof fabric worn by the Apollo astronauts. After several appointments in research management, I transferred to new business development where I found that forging the future from the business perspective was as fulfilling as technology. For some years I pursued a career in both technology and business.

From that juncture I moved on to acquire skills in strategic and operational planning, quality management, organizational development, and project management. The whole comprises my career thrust of forging the future for organizations from the combined perspectives of these disciplines. At present, I am supplementing my capabilities with study of biotechnology and German.

DR. PETER D. KLUGHERZ

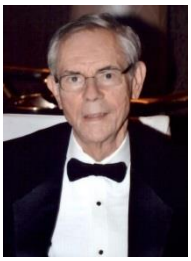
Peter D. Klugherz received his BChE and PhD in Chemical Engineering from Cornell University and joined the Research Division of Rohm and Haas Company in 1968. Initially, he worked at the Philadelphia Plant in Bridesburg, but after about 10 years his department was relocated to the Rohm and Haas research facility in Spring House, PA. For most of his career he worked on the development of processes for the manufacture of the major monomers of interest to the company. His research primarily involved the evaluation and characterization of catalysts for the two-stage oxidation of propylene or isobutylene to acrylic acid or methacrylic acid, respectively, and the direct oxidation of propane or isobutane to these same unsaturated acids.

Beginning in 1986 Peter was also responsible for providing technical support for the commercial propylene oxidation units in Deer Park, TX. He monitored catalyst performance, participated in start-ups after catalyst replacement, and assisted in troubleshooting whenever problems arose. The research and plant support work led to eight patents.

Peter retired from Rohm and Haas in 2008 with the title of Principal Scientist after 39 years of employment. Subsequently, in 2010, he and another retired scientist were contracted by Dow Chemical to create a training program for the operators in the oxidation area in Deer Park. This work was completed after about a year and culminated in the presentation of the course to several groups of operators and engineers in Deer Park.

Peter and his wife, Joyce, reside in Huntingdon Valley, PA. They recently celebrated their 50th wedding anniversary, and have 4 children and 12 grandchildren. They enjoy working around the house and yard, traveling, and spending time with their grandchildren.

DR. RICHARD M. KOPCHIK



A native of Punxsutawney, Richard grew up in Beaver Falls, PA. He received a BS in chemistry from Carnegie Mellon University in 1963 and a PhD in physical organic chemistry from the University of Rochester in 1968. After spending two years in chemical defense research, as a Captain at the US Army Edgewood Arsenal, Richard joined Rohm and Haas. In a 25-year career at R&H labs in Bristol and Spring House he progressed from senior scientist to technical manager. His research focused on continuous processes for the preparation and modification of polymers and in the development of chemical defense systems. Of particular note were a new class of imide polymers (Kamax) and an Army skin decon kit (M291). Richard then moved to a 10-year career as a consultant. This activity centered on developing acrylic/polyolefin alloys for firms in Europe. Richard holds many polymer product and process patents from his R&H work as well as from his consulting efforts.

In addition to his industrial career Dr. Kopchik had a 37-year career in the US Army Reserve; retiring as a Lieutenant Colonel.

In retirement Richard is spending time with family (wife, Joan, two children and a granddaughter) and friends, traveling, and dabbling in genealogy. Attending cultural events, the Philadelphia Orchestra, Bristol Theater, Michener Museum, etc., is another focus, as well as active church involvement. He also enjoys volunteering in the "Friends of Tamanend," a support group, which he helped to found over 30 years ago for a 100-acre community park.

DR. ERNEST KORCHAK

Dr. Korchak studied chemical engineering at the Technical University of Delft (Netherlands) and Melbourne University (Australia). After working for Imperial Chemical Industries in Australia, he and his wife went on their honeymoon to graduate schools in the US. He received Master and Doctoral degrees in chemical engineering at MIT in 1964, after which he joined Halcon-Scientific Design Co., eventually becoming president of Halcon R&D Corp. and Scientific Design Co.

respectively. During this period he worked in research, international sales and licensing, and engineering.

After Halcon-SD closed in 1986 he started his own company, Performance Coatings Corporation, where he is still active together with two sons. This company develops and manufactures specialty coatings and adhesives. He is actively involved in a sister company in France, started by a third son.

He and his wife of 54 years have 6 grandchildren, the youngest in daycare, the oldest in medical school in his native country, the Czech Republic, the other 4 spread between New Jersey and France. He has been an active sailor since he got his first dinghy at age nine in Holland. Other interests are music (listening only) and cooking.

DR. WILLIAM J. LAUTENBERGER

Dr. Lautenberger is currently enjoying his retirement from the DuPont Co. He retired in 2001 after working for 34 years as a research chemist, research supervisor and quality control manager. He is a graduate of Muhlenberg College and the University of Pennsylvania where he received his PhD in Physical Chemistry.

His industrial career was mostly in the field of polyimide polymer chemistry with the Electronics Department of the DuPont Co. located in the Delaware Valley and northern New Jersey. The last five years of his employment were quite a challenging and rewarding experience working for HDM, a Hitachi Chemical/DuPont Microelectronics Joint Venture.

After retiring, he obtained a Culinary Arts degree from The Restaurant School in Philadelphia. In addition to enjoying cooking, his other interests are golf, tennis, performing and listening to music, spending time with his five grandchildren, reading books and traveling.

In July, he and his wife, Anita Spiegel, will celebrate their 34th wedding anniversary. They reside in Bala Cynwyd, PA.

JOHN L. MIETZ

After graduating from La Salle College (now University) in 1963 with a BA in Chemistry, I immediately started working as an "Inspector" for the Food and Drug Administration in the Philadelphia District Office. After a few months I gladly transferred to the Laboratory as an Analytical Chemist.

During the 1960s I worked with Gas Chromatography (GLC) instruments for pesticide and drug analysis and in the 1970s was involved with developmental work using High Performance Liquid Chromatography (HPLC) for food and drug samples. As a FDA bench chemist I witnessed and enjoyed the advancements that electronics made in analytical chemis-

try. It was a pleasure using the many analytical tools including GLC, HPLS, UV/Vis (actually learned on a Beckman DU), FTIR, NMR, MS, Dissolution and many other techniques that the FDA routinely used in the analysis of regulated products.

As Supervisory Chemist in the 1980s and 1990s, I ensured that samples performed by the workgroup met necessary quality and regulatory requirements of the Agency.

In 2000 I became Quality Manager for the laboratory and worked to have the FDA District Laboratory accredited by the American Association of Laboratory Accreditation.

This was achieved in 2005 after which I retired after 42 years of Government service to help my wife Alice with her family mentoring business and take care of a disabled son. I can honestly say that I enjoyed all 42 years as a chemist working for the FDA.

HENRY F. PANNING

As a boy, I developed an early interest in chemistry and plastics with my A.C. Gilbert Chemistry Set. After graduating from Libbey High School in Toledo, OH in 1959, I earned my way through college working some nights and Saturdays at the local A&P Supermarket. After graduating from the University of Toledo in 1963 with a BS in Chemistry, I began my long chemistry career starting in plastics and elastomers with Goodyear Tire and Rubber in Akron, OH. Most of my 11 years at Goodyear centered on pioneering work in R&D and production of elastomers; PVC for packaging film, sheeting, and flooring; and polyester for tire cord, bottles, and film.

During my later years with Goodyear, I earned my MBA in Marketing at the University of Akron in 1973, and left Akron in 1974 to start my new career in market research and development with Rohm & Haas in Philadelphia, PA. From 1976 to 1980 at Amchem Products in Ambler, PA I worked in market development/sales of metal treating chemicals for automotive, containers, office equipment, aircraft, and other markets.

Next, from 1980 to 1987, I worked at two different technical/business consulting firms in the Delaware Valley on a wide range of projects from electronic chemicals to specialty polymers and traveled heavily in the US and sometimes in Europe. From 1988 to the present, I am still working nearly full-time in my own technical/business consulting firm, Marketing Consultants, in Downingtown, PA. In addition, I work part-time in telemarketing/sales for a financial services firm. My wife also works full-time yet.

My other interests include, when I have spare time - keeping up with my busy family with four children, golf, long-distance travel to see our two grandchildren, photography, astronomy and gardening.

PHILIP E. PFEFFER

After graduating from Hunter College of the City University of New York, I received a MS and PhD in Physical-Organic Chemistry from Rutgers University. I continued my training in NMR spectroscopy for two years at the University of Chicago under Gerhard Closs and then joined the USDA's Eastern Regional Research Center (ERRC) in 1968. From then until now my career has covered a wide range of chemistry from organic synthesis, lipid and carbohydrate chemistry, polysaccharide structure elucidation as well as solid and solution state NMR and Mass Spectrometry. In addition to my adjunct Professorship at Drexel University, I devoted the last 14 years primarily to the study of plant ion transport and plant/microbe interaction of symbiotic systems with research collaborations at the University of Pennsylvania, Cornell and Duke universities. During this time I have had the opportunity to spend sabbaticals with my family in Grenoble, France, Oxford, England and Bordeaux, France.

Among others, I have received the Philadelphia Section Award, American Chemical Society Award, the USDA Science and Education Award and ARS North Atlantic Area Outstanding Scientist Award.

Following my retirement from government service after 39 years, I am still doing one of the things I love best, "Science." As a co-author with my previous post-docs, we continue our collaborations and have published articles in journals such as *Nature* and *PNAS*.

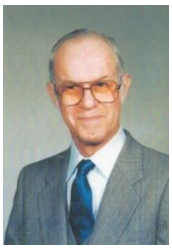
As an Emeritus Scientist at ERRC, a volunteer Science Interpreter at the Franklin Institute and consultant in the area of cancer cell signaling at NIH, I round off my week being with my great wife and wonderful grandchildren. In December, 2012, my wife Judy and I celebrated our 50th wedding anniversary. We have three children and eight grandchildren who live close by. This is the best way to retire!

HERMAN RUTNER

After legal immigration in 1951 and HS graduation in 1953, I have been exclusively employed in several large and small companies starting as a lab tech at Pfizer, Brooklyn. I was lucky to start in the chemical pilot plant where I got excellent grounding in industrial chemistry, working nine years for Chem E's, both at lab and pilot plant scales (with a welcome "two-year vacation" as a peace-time draftee at US Army Biowarfare Labs, Ft Detrick, MD), while also taking evening courses for nine years at Brooklyn Poly, getting BS and MS degrees as an Organiker in 1966. My ingrained focus on developing, implementing, problem solving and troubleshooting early in my career has been of immense value in my academic and industrial activities for 17 years at Pfizer in Brooklyn and Maywood, NJ; 24 years in biomedical R&D and Tech Support, B-D, Orangeburg, NY; 7 years at Immunicon (now Veridex/J&J), Huntingdon Valley, PA, doing chemistries and engineering for an FDA approved test for detecting rare circulating cancer cells in blood, since 2004 still the industry gold standard.

Still active as a Biotech Consultant, I can look back on about 30 issued patents (15 in the last 15 years), about 10 publications including published two-author BS and MS theses, US Army Certificate of Achievement, 1960 (for a process patent), and ACS regional Chemist of the Year Award (1984). My current interests include Biblical apologetics and novel health/consumer products.

WILLIAM SHANER



After graduating from High School in 1943, William Shaner served in the Navy during World War II. He attended Temple University after discharge from the Navy. At the end of his junior year at Temple, he was recalled to active duty for the Korean War.

He received his BA from Temple in 1953. He was employed by Sun Oil Company in Marcus Hook after graduation. In the Analytical Department of Research and Development he took part in the development of analytical methods to support the other departments of R&D. When the petroleum industry began to produce unleaded gasoline, he helped to develop a method for the rapid automated determination of lead in gasoline at the parts per million level.

After 30 years in R&D, he moved to the Refinery Laboratory, which performs specification tests of incoming materials and outgoing products. He retired from Sun Oil in 1991. In May, Bill and his wife, Louise celebrated their 62nd wedding anniversary. They have five children, six grandchildren and four great-grandchildren. Bill is a licensed amateur radio operator. His call sign is KB3ILH.

DR. PETER R. SPERRY

After graduation from Tupper Lake High School (NY) in 1956, Pete proceeded to Cornell University where he received the BChE degree in 1961. He earned the ScD in Chemical Engineering from MIT in 1965 with a study of ice crystal growth kinetics.

Following a post-doc year at MIT he joined the Rohm and Haas Company Research Division at Spring House, PA where he remained until his retirement in 1998 as Senior Research Fellow in Exploratory Polymer Research. His work there centered on both emulsion and solution polymers for coatings and allied application areas with emphasis on their colloid and polymer chemistry as related to improved performance.

In his non-technical life Pete was involved many years in Scouting as both unit leader and in local council. Family time involved much camping, hiking and backpacking. In retirement he has been a board member of the Friends of the Delaware Canal for several years and is currently treasurer. Efforts there included leading the installation of permanent mile markers along its nearly 60 miles, and facilitating the development of an endowment fund for the Friends. Pete spends untold hours as well on family genealogy research.

Pete looks forward next year to celebration of 50 years of marriage to Barbara. They have children Susan and Paul (Virginia), and granddaughter Juniper.

DR. THOMAS S. STRAUB

After graduating from Princeton University in 1963 with an AB in Chemistry, Tom obtained a MS at University of Minnesota with M.M. Kreevoy, a PhD at Illinois Institute of Technology with A.J. Kresge, and held a postdoctoral position with Myron Bender at Northwestern University. Tom came to Philadelphia in 1972 to teach at La Salle University where he continues to introduce students to organic and biochemistry. Tom served as Chair of the Department of Chemistry and Biochemistry for 20 years, received the Lindback Award for Outstanding teaching in 1989, and still attempts to pursue his research interests.

Tom became active in the Philadelphia Section when National Chemistry Day, now National Chemistry Week, was introduced in 1989. He directed a poster contest for the Section from 1989 to 2005, served on the Education Committee beginning in 1989 and has been Chair since 1994. The duties assumed included coordinator for the Philadelphia Section of the National Chemistry Olympiad and organizer, moderator and demonstrator for the Herb Bassow Memorial Lecture, "Chemistry Demonstrations for Children of all Ages," a series of demonstrations and activities conducted on area college campuses each December. Tom has also been a member of the Philadelphia Section Board of Directors since 1996, served as Section Chair in 1997, served as Councilor from 1998 to 2003 and has been involved in Section elections since 1988, serving as chair of the Tellers' Committee since 2002. For these activities he received the Philadelphia Section Service Award in 1997 and the Ullyot Award in 1999.

Tom and his wife Carol live in Ardmore where Tom is a member of the Merion Concert Band. Their pride and joy are the three daughters and five grandchildren they share.

DR. STUART R. SUTER

My interest in chemistry began in high school and has continued throughout my life. After receiving a BA from Bridgewater College in Bridgewater, VA, I continued on at the University of Michigan where I received a MS in organic chemistry. After several years of employment as a research chemist, it became clear that further education was needed to advance my career so I entered the University of Virginia. Under the guidance of Dr. Richard Sundberg, I received a PhD with a dissertation entitled "Skeletal Rearrangements of Aryl Nitrenes to Pyridines and Azepines" in 1970 followed by a year postdoctoral appointment at the University of Vermont.

My industrial career, entirely with SmithKline (now GlaxoSmithKline), began as a research chemist between the MS and PhD degrees. In the early 1970s finding employment as a PhD organic chemist was a real challenge. A position in the patent department of GSK, which required obtaining a law degree, was offered to me. Thus began my 25-year career as a patent attorney at GSK. This marriage of the law and chemistry proved to be both challenging and rewarding in

many ways and fulfilled my thoughts of using my chemical training in ways other than as a lab researcher.

My retirement has also been fulfilling with nurturing of grandchildren, travel, golf and fly fishing. I have also enjoyed volunteering on several boards of healthcare organizations. This July my wife (Lorraine Helmick of Harrisonburg, VA) and I will celebrate our 50th anniversary. We have two children and four grandchildren. We live in Ambler, PA and Cape May, NJ.

DR. DAVID A. TEMPLER

Dr. Templer received his BA in Chemistry from Northwestern University in 1964, where he also served as Lecture Demonstrator. He then attended Indiana University, earning a PhD in Organic Chemistry in 1968, with the aid of multiple fellowships.

He started his diverse industrial career as a Senior Chemist at Rohm and Haas in Srpinghouse, PA. He moved up the ladder and, for 20 years at Rohm and Haas, was the Technical Director for the Latin American Region. One of his many accomplishments while there was receiving a patent for the purification of fuel ethanol in Brazil.

Ending a 27-year career at Rohm and Haas, Dr. Templer took early retirement. After a day's retirement he began work at Polysciences in Warrington, PA where he remained for 17 years as Vice President of Technology and Business Development. Both at Rohm and Haas and Polysciences, Dr. Templer enjoyed the opportunity to combine technology and business to promote the growth of both companies.

Dr. Templer recently retired at the age of 70 to smell the roses and pursue his hobbies. At a festive retirement dinner he received the traditional gold watch and a great send-off.

DR. WILLIAM VAN HOEVEN

After graduating from Hope College in 1964, Bill went to the University of California at Berkeley, where he earned a PhD in Organic Chemistry.

Bill began working for DuPont at the Marshall Laboratory in Philadelphia in 1969 doing research on electrodeposited coatings. He later joined the research group for new cookware coatings and holds several patents for such coatings. Subsequent work at DuPont included product support, product management and market development, some in DuPont's acrylics business, but mostly in DuPont's fluoropolymer business. He left DuPont in 1998 and worked as a consultant in the fluoropolymer coatings market. In 2003 Bill joined Delaware Marketing Services/Delaware Specialty Distribution, which markets DuPont's fluoropolymer resins and films, serving as a Regional Sales Manager until retiring from that position in January 2013.

Bill lives in Swarthmore, PA with his wife Helene (nee Bowman) whom he met at a monthly meeting of the Philadelphia Section of the American Chemical Society! She at the time was a

chemist at Smith, Kline & French. They plan to spend their retirement time traveling and enjoying the cultural and gastronomic opportunities of Philadelphia and the surrounding area.

PAUL J. ZIMMER

Paul graduated from Dunmore (N.E. PA) High School, where he took chemistry as a senior. He was inspired to continue in chemistry by his uncle, Edward Kupstas, PhD.

He received a BS in chemistry from The University of Scranton. He then received a MS in physical chemistry from Villanova University in 1966. He worked in the laboratory of Bernard J. Downey on the high temperature (450°C) reaction between nickel and chlorine.

Paul worked at Frankford Arsenal on caseless ammunition and as plant chemist and researcher at both Dimensional Pigments (pearlescent pigments) in Bayonne, NJ and Polymeric Systems in Parkerford on urethane caulks. He also taught chemistry at several colleges, community colleges and universities, as an adjunct instructor. Paul last taught in 2011.

For 15 years, Paul left chemistry to work as a driving instructor and a market researcher, which enabled him to work with people on a one to one basis. He is also the author of several papers in the popular press on unnecessary medical procedures.

Paul is married to Elisabeth Neubauer from Blumendorf, Germany, which is the best thing that ever happened to him. They met in 1968, on the beach in Margate. They are very involved in the lives and education of their four grandchildren. They often travel throughout North America in their 1985 Vanagon (VW). They reside in St. Peters, near Pottstown. Paul is participating in the design of a ground source, open loop, heat pump for their home, as of this writing.

SECTION MEMBERS ALSO CELEBRATING 50 YEARS

Dr. William E. Bondinell; Frank A. Capotosto, Jr.; Dr. David Young Cooper; Dr. Franklin A. Davis; Dr. Ellis E. Golub; Dr. David T. Hill; Dr. Herman J. Hinitz; Dr. Thomas R. Hurford; Vida S. McDonough; Rosalie P. Shaw; Dr. Kenneth A. Sund; Dr. Duane E. Thurman; Willem B. Van Der Linde.

SECTION MEMBERS CELEBRATING 60 YEARS

Dr. James Batchelor; Daniel J. Brogan; Dr. George Carroll Buzby, Jr.; Dr. Robert A. Erb; Lillian Garfinkel; Dr. Harold Graboyes; Erwin Grob; Dr. David R. Herbst; Dr. Herbert L. Hergert; Dr. Walter Theodore Koch; Dr. James E. Masterson; Dr. Geoffrey Walsh Meadows; Dr. Richard Joseph Mohrbacher; Dr. John O'Neill; Dr. Frank A. Pepe; Dr. Arthur Attillio Santilli; Emanuel Charles Spitzer; Dr. Andrew J. Sullivan; Dr. Conrad Noble Trumbore; Dr. Perry Niel Yocum.

TEACHING AWARDEES AT THE MAY MEETING

Left to Right: Jason Cross (Delaware Valley College, Philadelphia Section Award for Excellence in Undergraduate Teaching), Derrick Wood (Conestoga High School, Philadelphia Section Award for Excellence in High School Teaching); Tom Barton, ACS 2014 President-Elect; Anderson Marsh (Lebanon Valley College, E. Emmet Reid Award for Excellence in Chemistry Teaching at a Small College in the Mid-Atlantic Region); Jayasree Sankar (Bergen County Technical High School-Teterboro, ACS Division of Chemical Education Middle Atlantic Regional Award for Excellence in High School Teaching).

THE AMERICAN CHEMICAL SOCIETY PHILADELPHIA SECTION

in association with

THE PENNSYLVANIA BIOPHARMA NETWORKING GROUP (PABPNG)

is co-hosting a SUMMER NETWORKING EVENT

Tuesday, June 4, 2013
6:00 PM to 9:00 PM
Bowman's Tavern
1600 River Road
New Hope, PA 18938

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

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

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

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

CCN
www.chemconsultants.org

CHEMICAL CONSULTANTS NETWORK

JUNE 12, 2013 MEETING

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

Date & Time: Wednesday, June 12, at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Buffet, 6:15 PM; Forum and Business Session, 7:30 PM

Topic:

ANNUAL OPEN FORUM

AL FRESCO BUFFET

SPOUSES WELCOME!!!

Program: As in the past, we will informally exchange questions and experiences relating to our activities as independent chemical consultants or our interests in becoming one. This gathering has been one of our most popular and enjoyable events, so don't miss it!

Location: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. From I-76 drive S on City Line Ave. (US Rte. 1). Turn right on Conshohocken State Rd. (Rte. 23); stay in right lane. After second light watch for white left-turn arrows painted on street (about 0.14 mi/750 ft). Do not follow Rte. 23 left at turn but instead go straight ahead onto Llandrillo Rd. (passing to right of Valley Press printing). In one block bear left onto Trevor Lane at stop sign. Clubhouse and parking are on the left. Please park in lot if space is available; otherwise park on Trevor Lane. If lost, call the club at (610) 667-4524, ext. 2. MAP

Reservation: To make or cancel a dinner reservation, e-mail CCNReservations@aol.com or call the ACS office at (215) 382-1589 (leave message on voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is $25 for individuals or $40 per couple. Reservation deadline is Thursday, June 6th, $35 afterwards. DRESS IS CASUAL. 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 Forum only, but registration is suggested using contact information above.

SCHOLASTIC ACHIEVEMENT AWARD WINNERS, 2013

Arcadia University	Geoffrey Eill
Bryn Mawr College	Ali Elizabeth Raeber
Chestnut Hill College	Nicholas Williams
Delaware Valley College	Allyson Kriebel
Drexel University (Chemistry)	Matthew McBride
Drexel University (Chemical and Biological Engineering)	Caitlin McRae
Eastern University	Chelsea Merkel
Haverford College	Matthew D. Smith
Immaculata College	Nicolas Kirkland
La Salle University	Alex M. Confer
Philadelphia University	Jaleesia Amos
Rutgers, The State University	Joseph Dalessandro
St. Joseph's University	EuTchen Ang
Swarthmore College	Jacob Schreiber Tracy
Temple University	Ashley Truxal
University of Pennsylvania (Chemistry)	Heui Beom Lee
University of the Sciences in Philadelphia (Chemistry) (Biochemistry)	Dmitriy Davydovich Matthew Ferry
Ursinus College	Aaron Peters
Villanova University (Chemistry)	Melissa Grenier
Villanova University (Chemical Engineering)	Nicole Giambone
West Chester University	Maria Sanford Robert Yocum
Widener University (Chemistry)	Alysha Moretti

ANNOUNCING A YOUNGER CHEMISTS COMMITTEE (YCC) COUNCIL

The Philadelphia Local Section Younger Chemists Committee (YCC) is starting a council for the 2013-2014 academic year. We are looking for 12 younger chemists (under the age of 35) to participate as members of the council. Each member would be responsible for spreading information about YCC events to colleagues, coworkers, and friends. In addition council members would pair up to host one event a year for the YCC community at large. There would be events in October, November, January, February, March, and April. Events include the annual poster session, the webinar in a box program in October and February, and social events. Other ideas for events are welcome! The council members organizing the event would be responsible for organizing a room/location to hold the event, making a poster that the other council members can distribute, writing a blurb for *the Catalyst* (the Philly Local Section newsletter), and arranging for the particular requirements of the event. For example, the poster session requires easels for the posters, food, judges, and a way to distribute the prizes in addition to the other aspects of organizing an event. Besides organizing one event a year, each council member would be encouraged to attend the other events organized by fellow council members and monthly council meetings. Those unable to attend the monthly council meetings in person can call in by teleconference. This is designed to be a two year position. Members for the 2013-2014 academic year will serve as mentors for the council members during the 2014-2015 academic year.

The Philly YCC is also looking for someone to manage the YCC listserve and to be our webmaster. These people can either be on the YCC council or can participate in addition to the council members.

If you are interested in joining the YCC council for the 2013-2014 academic year, please send Christie an email at cmcinnis@dow.com. The YCC council will have its first meeting in June.

INTERESTED IN WORKING FOR ACS?

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

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

NATIONAL HISTORIC CHEMICAL LANDMARKS IN YOUR COMMUNITY—

Keith Lindblom, ACS National Historic Chemical Landmarks Program Manager

ACS established the National Historic Chemical Landmarks program in 1992 to enhance public appreciation for the contributions of the chemical sciences to modern life in the United States and to encourage a sense of pride in their practitioners. To date, the program has recognized 70 subjects in the United States and around the world, including 5 within the Philadelphia Section:

- **Acrylic Emulsion Technology**: Rohm and Haas scientists began to explore water-based acrylic technology in the 1940s, and in 1953 the company developed Rhoplex AC-33, an acrylic binder used to make house paints. This water-based technology required less preparation, was easier to clean up, had less odor and performed better than or equal to paints formulated with solvents. (Rohm and Haas is a wholly owned subsidiary of The Dow Chemical Company.)
- **Food Dehydration Technology**: Chemists, chemical engineers, and food technologists at the USDA ARS Eastern Regional Research Center developed innovative technologies to dehydrate food products, most notably the potato flake process and explosion puffing. These developments resulted in increased US potato production and utilization, provided key products for food aid programs, and made a lasting impact on the ways in which foods are processed worldwide.
- **Houdry Process for Catalytic Cracking**: The first full-scale commercial catalytic cracker for the selective conversion of crude petroleum to gasoline went on stream at the Sun Company (now Sunoco) refinery in Marcus Hook. Pioneered by Eugene Jules Houdry, the catalytic cracking of petroleum conserved natural oil by doubling the amount of gasoline produced and greatly improved the gasoline octane rating, making possible today's efficient, high-compression automobile engines.
- **Smith Memorial Collection at the University of Pennsylvania**: The Edgar Fahs Smith Memorial Collection in the History of Chemistry is one of the oldest, most diverse, and most significant collections of chemistry books, manuscripts, and images in the United States. During his more than 40 years at the University of Pennsylvania, Smith (1854-1928) shared his great interest in the culture and history of chemistry through teaching, lecturing and writing.
- **Tagamet®: Discovery of Histamine H_2-Receptor Antagonists**: Research by SmithKline Beecham (now GlaxoSmithKline) scientists in King of Prussia, PA, and Harlow, UK, led to the introduction of the first clinically effective inhibitor of gastric acid secretion. Cimetidine (Tagamet®) revolutionized the treatment of peptic ulcers by dramatically reducing the need for surgical intervention. Subsequent investigation and design of novel synthetic routes led to the development of an efficient chemical manufacturing process.

To qualify, subjects must clearly represent seminal achievements in the history of chemistry; they must evidence significant impact and benefit to the public and the chemistry profession; and they must be at least 25 years old. ACS local sections, divisions or committees can nominate subjects for the program.

For a complete list of National Historic Chemical Landmarks or more information about the nomination and selection process, visit www.acs.org/landmarks or contact the author at landmarks@acs.org.

Photos from the Philadelphia Science Festival Carnival on April 20th

Many thanks to the students from the Bristol High School Chem Club and their teacher, William Smith, for hosting the Philadelphia Section booth.

Philadelphia Section Award for Excellence in Undergraduate Teaching in Chemical Science

Jason Cross

Dr. Jason Cross joined the faculty at Delaware Valley College in August 2011 after teaching for six years at Temple University. He teaches Organic Chemistry I and II lecture and lab courses, as well as the Advanced Organic Chemistry course. Dr. Cross also supervises students enrolled in undergraduate research, and maintains research collaborations with faculty from Temple University.

Dr. Cross received a BSc (Honors) in medicinal and environmental chemistry from Brunel University in London. In addition, he earned a PhD in chemistry from the University of Surrey in Guildford, UK, under Professor Peter Sammes. His thesis focused on luminescent lanthanide complexes for biological applications.

After moving to the United States in 2002, Dr. Cross worked as a post-doctoral fellow at the University of Pittsburgh for over two years. In addition, he was a research associate at Vanderbilt University for one year before moving to Philadelphia.

Dr. Cross lives in Bucks County with his wife, Gretchen, their boys, Hank, Manning and Tricky (one dog, two cats).

Philadelphia Section Award for Excellence in High School Chemistry Teaching

Derrick C. Wood

Derrick Wood received his BA in Chemistry from Drew University, a Masters in Chemistry Education from the University of Pennsylvania, and a Masters in Education with Leadership emphasis from Cabrini College. Derrick began his career at Conestoga High School in 2004 and has taught all levels of chemistry, but primarily AP Chemistry. Following what had been mirrored to him as an undergraduate, Derrick has authored Case-Studies for his High School Chemistry courses as an alternative and authentic way of integrating the lab component into Chemistry. Moreover, he serves as the advisor and mentor for students performing independent research in science. Derrick's personal interests in Analytical Chemistry have catalyzed a number of projects for independent research, particularly with high performance liquid chromatography. Derrick also co-authored a nationally published review book, *AP Chemistry All Access*, with his close friend and colleague Dr. Scott Best. Derrick is the Head Coach of Conestoga's Science Olympiad Team, and has consistently led his students to medal in the top five teams at the annual State Competition. He also serves as the advisor of the SHINE for Christ club at Conestoga. He and his wife Anastasia Sheffler-Wood enjoy raising their 3-month old son Breckin Shefflerwood, who is destined to be a lover of the chemistry around him.

DIRECTORY OF SERVICES

ADVERTISING INDEX

ACS	140, 141
Mass-Vac, Inc.	117
Micron Inc.	140
NuMega Resonance Labs, Inc,	140
Robertson Microlit Labs	140
Tosoh Bioscience LLC	140
Vacuubrand, Inc.	140

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

PHILADELPHIA SECTION, ACS
CURRENT CALENDAR OF ACTIVITIES

Date	Event	Location
Tuesday June 4	Career Services Committee and PA BioPharma Networking Event	Bowman's Tavern New Hope, PA http://philadelphia.sites.acs.org
Wednesday, June 5	American Institute of Chemical Engineers: *Annual Meeting*	Iron Hill Brewery & Restaurant Media, PA http://aiche-philadelphia.org
Friday, June 5	First Friday: *Ales of the Revolution*	Chemical Heritage Foundation Philadelphia, PA www.chemheritage.org
Monday, June 10	Science on Tap	National Mechanics Philadelphia, PA www.chemheritage.org
Wednesday, June 12	Chemical Consultants Network: *Annual Open Forum*	The Cynwyd Club Bala Cynwyd, PA www.chemconsultants.org
Thursday, June 20	**Luncheon Honoring Our Fifty- and Sixty-Year Members: Larry Horwitz, Iron Hill Brewery and Restaurant**	**Iron Hill Brewery Chestnut Hill, PA http://philadelphia.sites.acs.org**
September 8-12	**246th ACS National Meeting**	**Indianapolis, IN**
Thursday, September 19	**Philadelphia Section Meeting TBA**	**TBA**
Thursday, October 17	**Philadelphia Section Award**	**TBA**
Thursday, November 21	**Ullyot Public Affairs Lecture: Joe Palka, National Public Radio**	**Chemical Heritage Foundation Philadelphia, PA**
Saturday, December 14	**Chemical Demonstrations and Hands-on Activities for Children of all Ages**	**TBA**

CAREER DEVELOPMENT

Being a part of one of our teams can help you develop organizational and meeting skills as well as help you to network with people from the largest area companies. Public Relations, such as sending out meeting notices and press releases, can help you to develop a network and help you get noticed!

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.

Comittee details can be found at: http://www.membership.acs.org/p/philadelphia

or by calling Mrs. Libby Harper at the Philadelphia Section Office (215) 382-1589.