Philadelphia Section High School Teaching Award

Deborah Kilmartin (left), Awards Committee Chair, presenting the 2005 Philadelphia Section Award for Outstanding High School Chemistry Teaching to Sally von Meyer of Abington High School at the Chemical Heritage Foundation on May 19th. (Joel Perlish photo)
EASTERN ANALYTICAL SYMPOSIUM
November 14-17, 2005 Somerset, New Jersey

Highlights of the 44th EAS include:
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  - Emerging Applications in Solid-State NMR Spectroscopy
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Eastern Analytical Symposium
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AstraZeneca Pharmaceuticals proudly announces the
2005 Excellence in Chemistry Award Recipients:

Professor Dean Toste
University of California, Berkeley

Professor Phil Baran
Scripps Research Institute

The 21st Annual Awards Symposium will be held at the
AstraZeneca Brandywine Auditorium
1800 Concord Pike, Wilmington, Delaware

Thursday, October 27, 2005, from 1:00 – 5:00 pm

Distinguished Lecturer:
Professor Scott Denmark
University of Illinois

For information and reservations, please visit:
www.astrazeneca-us.com/EIC

Sponsored by the AstraZeneca Chemistry Department, these awards are presented to promising young faculty who are affiliated with universities in the United States and Canada, recognizing outstanding research in synthetic, mechanistic, or bioorganic chemistry. Each awardee receives a $50,000 unrestricted research grant.
I hope all of you had opportunities to rest, relax, and rejuvenate during the summer months. For me the summer is always hectic as my work entails providing professional development for teachers. My office was busy organizing and implementing institutes of one or two week’s duration. We hosted activities from the last week in June through the third week in August. The most exciting institutes for me were an Early Childhood Institute for teachers of children three to five years of age and an Elementary Science Institute for teachers of grades 1-6. The Early Childhood folks focused on forces and motion. They were building structures and discovering ways to increase stability. The Elementary Science Institute focused on some fundamental aspects of chemistry. I won’t elaborate further on the details of the institutes.

More importantly, I want to emphasize the importance of working with teachers of pre-kindergarten through grade 6. These are the folks who can truly make a difference in interesting children in science. For those of us involved in education, the fall is always exciting. Each academic year begins with anticipation, anxiety, and promise. There are new opportunities to engage and encourage students of all ages to achieve their goals. It is with this sense of excitement and enthusiasm that I welcome you back to the Section events.

As indicated on the calendar, the upcoming Section meetings are: the Philadelphia Section Award to be presented in October to Dr. Robert Pasternack of Swarthmore College, the Ullyot Lectureship presented by Marye Ann Fox at the Chemical Heritage Foundation in November, and the December Chemical Demonstrations for Children of All Ages at Rutgers University—Camden Campus. Look in future issues of the Catalyst for details.

On a more somber note, I just learned of the passing of Dr. John Gall. John and his wife Mary were very active members of the Section. We will all miss John’s warmth, humor, and congeniality. I welcome you back from the summer and look forward to seeing you at upcoming Section events.

Volunteers are needed at The Franklin Institute Science Museum to serve as Science Presenters in our many exhibits. Science Presenters answer questions, explain science concepts, and help children use the devices. Individuals who have a science background and enjoy working with children are encouraged to apply. Interested applicants should be willing to commit to at least 100 hours of service by volunteering on a weekly or biweekly basis. For more information, please contact Jamie Collier, Director of Volunteer Programs, at (215) 448-1163 or volprog@fi.edu.

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SEPTEMBER MEETING

The Philadelphia Section,
American Chemical Society,
The Division of Computers in Chemistry
and the FlashMob

present

Dr. Patrick J. Miller
Lawrence Livermore National Laboratory

Chemistry by FlashMob 2005

Thursday, September 15th, 2005
5:30 to 9:00 PM (see page 110 for schedule)

Thomas Great Hall
M. Carey Thomas Library
Bryn Mawr College
Bryn Mawr, PA

Dinner Cost: $12; Students with Reservations and College ID: $6

DINNER 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 8th. Cancellations, if necessary, cannot be accepted after
NOON on Tuesday, September 13th. UNCANCELLED RESERVATIONS WILL BE
BILLLED.

DIRECTIONS: See Campus map at www.brynmawr.edu/visit/campusmap.shtml. Thomas
Great Hall at Bryn Mawr College is located in the M. Carey Thomas Library (#18 on
the map). Free parking is available in the lot at #20 on the map. Directions by car and by train
(R5) are at www.brynmawr.edu/visit/ map_directions.shtml.

The Board of Directors will meet at 4:00 PM in Campus Center 200.
**NEWS ATOMS**

**Darnell Green**, a graduate of West Philadelphia University High School and currently attending Temple University, received a Project SEED scholarship to conduct research at the Forensics Mentors Institute in Willow Grove.

The Chemical Heritage Foundation named **Arthur Daemmrich** as director of their new Center for Contemporary History and Policy.

The University of Pennsylvania’s professor of chemistry **Madeleine M. Joullié** and professor of biochemistry and biophysics **Gideon Dreyfus** were elected to the American Academy of Arts and Sciences.

**Karyn Usher** joins West Chester University as assistant professor of chemistry.

**Robert L. McNeil, Jr.** of McNeil Laboratories was honored as the 2005 gold medalist of the American Institute of Chemists.

**Paul Magidman**, former chemist with the U.S. Department of Agriculture, February 4th at 76. He served in the occupation of Germany and later joined the Eastern Regional Research Center of USDA in Wyndmoor. He began using gas chromatography in the 1960s when the technique was in its infancy, and during World War II he obtained his doctorate and then joined the Penn faculty where he taught for 35 years, retiring c. 1985. During his tenure he worked on synthesis of cis-glycols from olefins and later, the use of physical and mathematical data in chemical analysis.

**James W. Wilson III**, former research chemist with Smith, Kline & French, June 14th at 82. Following service in chemical warfare during the Second World War he obtained his doctorate and then joined the Penn faculty where he taught for 35 years, retiring c. 1985. During his tenure he worked on synthesis of cis-glycols from olefins and later, the use of physical and mathematical data in chemical analysis.

**Alvin George Sharp**, former research chemist with DuPont, June 22nd at 89. He worked at DuPont’s Experimental Station for 39 years, retiring in 1980. He was a 64-year member of ACS.

**Sallie A. Fisher**, president and owner of Puricons, Inc., April 18th at 81. After a short teaching career she joined the ion exchange applications laboratory of Rohm and Haas in 1951. She left in 1960 to become associate director of research at Robinette Research Laboratories. In 1972 she joined Puricons. Fisher authored over 100 papers, and was recognized by ASTM and the Engineers’ Society of Western Pennsylvania for her work in the ion exchange field. She was a 57-year member of ACS.

**Eugene J. Rosenbaum**, retired chemist and chemistry professor, June 2nd at 97. Early in his career he taught at the University of Chicago and then joined Sun Oil Company in Marcus Hook where he was senior researcher from 1941 to 1956. He joined the Drexel University faculty in 1958 and retired in 1972. He continued to teach part time until 1980.

**Edward J. Saggese**, former research chemist with USDA, June 5th at 82. He served in World War II and received the Purple Heart. He was a food inspector for FDA in New York before joining the USDA where he worked on plant growth, plastic foam, and instant mashed potatoes.

**Frederick V. Brutcher, Jr.**, retired chemistry professor formerly with the University of Pennsylvania, June 14th at 82. Following service in chemical warfare during the Second World War he obtained his doctorate and then joined the Penn faculty where he taught for 35 years, retiring c. 1985. During his tenure he worked on synthesis of cis-glycols from olefins and later, the use of physical and mathematical data in chemical analysis.

**Elizabeth D. Strange**, retired research chemist formerly with USDA, July 6th. She joined the Eastern Regional Research Laboratories in the early 1960s and retired in 2000. Over the years she conducted research on tobacco, meat, and dairy products. In ad-

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**SCHOLASTIC ACHIEVEMENT AWARD WINNERS, 2005**

Arcadia University  
Bryn Mawr  
Chestnut Hill College  
Cheyney University of Penna.  
Delaware Valley College  
Drexel University (Chemistry)  
Drexel University (Chemical Engineering)  
Eastern University  
Haverford College  
Immaculata College  
LaSalle University  
Philadelphia University  
Rosemont College  
St. Joseph’s University  
Swarthmore College  
Temple University  
University of Pennsylvania (Chemistry)  
University of Pennsylvania (Chemical and Biomolecular Engineering)  
University of the Sciences in Philadelphia  
Ursinus College  
Villanova University (Chemistry)  
Villanova University (Chemical Engineering)  
West Chester University  
 Widener University (Chemistry)  
Widener University (Chemical Engineering)  

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**Continued from page 109**

consultants in a variety of categories. The presentation will also include a discussion of marketing and pricing for chemical consultants and an example of how to establish a successful chemical consulting practice. The results will also be compared to the 1997 CCN survey. **Location**: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. **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).

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**Technology Analyst/Writer**

An energy consulting and information services firm located in suburban Philadelphia is looking for a candidate to perform literature search, patent analyses, and technical writing. Chemistry major and excellent writing skills are required. Email a resume to info@hydrocarbonpublishing.com
There are two kinds of people: Those who do the work and those who take the credit. — Indira Gandhi

The greatest danger for most of us is not that our aim is too high and we miss it, but that it is too low and we reach it. — Michelangelo

**THOUGHT TO PONDER**

The IVBT has investigated how the ACS fund activities. A better use of the financial talent in the Section might be on the Finance Committee.

Also, Cheryl has heavy commitments that are considering retiring from this activity.

Several IVBT members have served long terms committed to flesh out this proposal.

George Cowperthwaite has requested to utilize the Ullyot Fund for its original purpose, to support the Ullyot Lecture-ship, or redesignate the Fund for another purpose, in consultation with Barbara Ullyot.

The Board unanimously approved that the ACS Investment Pool, if Barbara Ullyot approves, will report back after Barbara is consulted.

Since the investment objective differs. Cheryl Investment Pool, if Barbara Ullyot approves, Investment Pool.

Chair Cook called the meeting to order at 4:20 PM.

Minutes of January meeting were distributed previously. Corrections were noted and the corrected minutes were approved unanimously.

Committee Reports:

**Investment Board of Trustees**

The 2004 Annual Report was distributed at the meeting. C. Martin called the Board’s attention to the accomplishments listed therein. The report was accepted unanimously.

Cheryl brought up four proposals for Board of Directors action on behalf of the Investment Board of Trustees (IVBT):

1. Transfer the Capital Fund to the ACS Investment Pool.
2. Transfer the Ullyot Fund to the ACS Investment Pool, if Barbara Ullyot approves, since the investment objective differs. Cheryl will report back after Barbara is consulted.
3. Act on the IVBT’s more than 1-year-old request to utilize the Ullyot Fund for its original purpose, to support the Ullyot Lecture-ship, or redesignate the Fund for another purpose, in consultation with Barbara Ullyot.
4. Disband the IVBT and form a new Financial Committee, whose purpose will be to manage the Section’s cash flow vis-à-vis the ACS Investment Pool, and to monitor its performance. George Cowperthwaite has committed to flesh out this proposal.

She then led a discussion on these proposals. Several IVBT members have served long terms and are considering retiring from this activity.

Also, Cheryl has heavy commit-ments that could limit the time she can spend on IVBT activities. A better use of the financial talent in the Section might be on the Finance Committee. The IVBT has investigated how the ACS fund pool is managed and has confidence in it. Cheryl has been asked to serve on the fund board, so we would have a local contact.

The Board unanimously approved that the Investment Board take action to move an appropriate amount of the Section’s Capital Fund to the ACS investment pool. Some funds will be kept in a money market fund. The Investment Board agreed to present final numbers at the March meeting.

Moving the Ullyot Fund to the ACS investment pool will be discussed with Barbara Ullyot before any decision is made on moving it.

A. DeMasi thanked the Board for its excellent work over the years.

**Officers’ Reports:**

Chair

D. Cook read a memo from past chair Cichowicz which stated that the Section’s 2004 Annual Report had been submitted on time and that 4 award nominations were included in it.

Details of May and June meetings were announced.

Chair-Elect

D. Kilmartin reported that she attended the ACS Leadership meeting.

Treasurer

The report was distributed with the agenda and was approved unanimously.

**Other Business:**

D. Kilmartin reported that the Community College students attending the National ACS meeting requested that they receive the funds awarded by the Section before the meeting, since they need the money to pay travel bills. The Board discussed departing from the stipulation that the funds be dispersed after the meeting upon receipt of a report on activities at the meeting. A motion was made (A. DeMasi) and seconded (G. Preti) that funds be dispersed before the meeting if receipts for plane tickets are provided by the students. Approved unanimously.

Meeting Adjourned at 5:40 PM.

Respectfully Submitted,
Carol Carr,
Secretary

569th BOARD OF DIRECTORS’ MEETING
Thursday, February 17th, 2005
University of the Sciences
Philadelphia, PA

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


**Also:** L. Harper, B. Golton, W. Mendelson, C. Martin, H. Whalen.


Chair Cook called the meeting to order at 4:20 PM.

Minutes of January meeting were distributed previously. Corrections were noted and the corrected minutes were approved unanimously.

**COMMITTEE REPORTS:**

**Investment Board of Trustees**

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Cheryl brought up four proposals for Board of Directors action on behalf of the Investment Board of Trustees (IVBT):

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2. Transfer the Ullyot Fund to the ACS Investment Pool, if Barbara Ullyot approves, since the investment objective differs. Cheryl will report back after Barbara is consulted.
3. Act on the IVBT’s more than 1-year-old request to utilize the Ullyot Fund for its original purpose, to support the Ullyot Lecture-ship, or redesignate the Fund for another purpose, in consultation with Barbara Ullyot.
4. Disband the IVBT and form a new Financial Committee, whose purpose will be to manage the Section’s cash flow vis-à-vis the ACS Investment Pool, and to monitor its performance. George Cowperthwaite has committed to flesh out this proposal.

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Meeting Adjourned at 5:40 PM.

Respectfully Submitted,
Carol Carr,
Secretary

**SU R I S E**

our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way you could also give credit to our advertisers who financially support us.
This is the edited version of the minutes. A full copy of the minutes can be obtained from the Section Office.

Absent: C. Bentzley, G. Preti.
Chair Cook called the meeting to order at 4:10 PM.

Minutes of February meeting were distributed previously and were approved unanimously.

**COMMITTEE REPORTS:**

**Investment Board of Trustees (IVBT):**
C. Martin distributed a written report. The Board along with the section accountant, John Rarick, met in March to follow-up on decisions from the last Board meeting.

The IVBT acted to liquidate the two accounts associated with the Capital Fund and transfer them to the ACS Investment Pool at the end of the first quarter. National has been notified and is waiting for the funds. The IVBT also voted to move Ullyot funds to the Investment Pool, keeping them separate from the Capital funds. Barbara Ullyot has approved the transfer. Appropriate uses for the Ullyot funds were discussed.

The motion to move all of the Ullyot funds to the ACS investment pool was approved unanimously. The IVBT will meet May 10 and will act on this motion and will then formally disband.

The Finance Audit and Budget Committee (FAB) needs to be restructured in view of these changes. The FAB is not currently regulated in the bylaws, however, to avoid a major overhaul of the bylaws, the IVBT should continue but meet less frequently, with the main purpose of considering whether the entire bylaws should be reviewed.

**OFFICERS’ REPORTS:**

**Chair:**
D. Cook reported on meeting details for the May, June and September meetings.

**Chair-Elect:**
D. Kilmartin reported on program ideas.

**Treasurer:**
The treasurer’s report was distributed previously to the meeting. The Board accepted the report unanimously.

**OTHER BUSINESS:**

V. Tortorelli updated the Board on plans for the 2007 MARM meeting, which is sponsored by the Philadelphia Section. The meeting will be May 16th-18th, 2007 at Ursinus College. General co-chairs: S. Haynie and V. Tortorelli; Program chairs: A. Addison and T. DiFeo; Local arrangement chairs: A. Price and E. Williansen; Treasurer G. Cowperthwaite; Development Chair: C. Burcham.

Meeting was adjourned at 5:15 PM.

Respectfully Submitted,
Carol Carr,
Secretary

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**NOMINATING COMMITTEE REPORT**

M. Cichowicz reported that C. Martin and S. Levinson agreed to continue as IVBT members during the transition period. The Board approved these candidates unanimously.

**COUNCIL AFFAIRS COMMITTEE**

A. DeMasi reported on the Spring Council meeting.

**OFFICERS’ REPORTS:**

**Chair:**
D. Cook reported on meeting details for the May, June and September meetings.

**Chair-Elect:**
D. Kilmartin reported on program ideas.

**Treasurer:**
The treasurer’s report was distributed previously to the meeting. The Board accepted the report unanimously.

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Meeting was adjourned at 5:15 PM.

Respectfully Submitted,
Carol Carr,
Secretary

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**CHEMICAL CONSULTANTS NETWORK**

Visit our web page at www.chemconsultants.org

**BIOGRAPHY**

**Dr. Patrick Miller**

Dr. Patrick Miller has had a varied career as a computer scientist and high performance parallel applications developer. He wrote ground control systems for satellites and helped develop codes in the nuclear weapons complex. He is a language and runtime system expert who was a lead compiler developer for the Sisal language project and more recently is the author of the popular pyMPI distributed parallel version of the Python language. In his spare time, he teaches at local universities. In April 2004, he and the students in his “Do-it-yourself Supercomputing” class at the University of San Francisco built and assembled the largest temporary supercomputer the world had ever seen, FlashMob I, in an attempt to break into the Top500 list of supercomputers. He continues to work on instant supercomputing and is also the lead runtime developer and architect of the Petascale Simulation Initiative at Lawrence Livermore National Laboratory.

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**SPEAKER ABSTRACT AND SCHEDULE**

**Chemistry by FlashMob 2005**

**Abstract:** The Philadelphia Section, the Computers in Chemistry (COMP) Division (http://membership.acs.org/C/COMP/) and the FlashMob (http://www.flashmobcomputing.org/) organizers are teaming up to build an ad hoc supercomputer and use it to solve an interesting chemical problem. A FlashMob is a unique way to assemble a temporary (yes temporary!) supercomputer out of laptops, desktops, and the like that you just have “lying around the house.” Unlike computer clusters that are permanently assembled and need highly trained staff for their care and feeding, a FlashMob cluster is assembled by simply rebooting a collection of computers with a special CD to run one problem. When the problem is done, you take out the CD and the notebooks and desktops go back to their mundane, day-to-day existence.

**Chemistry by FlashMob 2005** is a hands-on event. Attendees will be creating a supercomputer out of 48 ordinary laptops to run a NAMD molecular dynamics problem. Take the disk home, collect some computers in your laboratory, and build your own supercomputer too!

Dr. Patrick J. Miller from Lawrence Livermore National Labs, one of the developers of the FlashMob, will be talking about how to build and run these ad hoc clusters. We will also be doing live science, running two NAMD simulations for local researchers.

Bring your laptop between 5:30 and 6:30, be part of the simulation and learn to set up your own ad hoc cluster. You must be willing to leave your laptop and its power adapter in the cluster from the set-up until after dinner. The laptops will be attended throughout the event and we will have security systems in place to assure that you and your laptop will be reunited at the end of the event. Your hard drive is never touched, everything runs from a special CD to run one problem. When the problem is done, you take out the CD and the notebooks and desktops go back to their mundane, day-to-day existence.

**Speaker Abstract and Schedule**

**Chemistry by FlashMob 2005**

Date & Time: Wednesday, September 14th, 2005. Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

**Topic:** The 2005 CCN Survey & What We Learned About Chemical Consulting Marketing

**Speaker:** Dr. Marc Halpern

**Abstract:** Dr. Halpern will present the results of the 2005 Chemical Consultants Network Survey for which a record 129 responses were submitted. This survey provides truly unique insight and data characterizing the annual revenue and rates charged by chemical consultants as well as effective marketing methods used by chemical consultants.

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**Continued on page 111**