

PHILADELPHIA SECTION, ACS 2005 CALENDAR OF EVENTS

Date	Event	Location
TBA	Delaware Valley Mass Spectrometry Discussion Group	Email svanbram@science.widener.edu
September 14	Chemical Consultants Network: <i>The 2005 CCN Survey &amp; What We Learned about Chemical Consulting Marketing</i>	The Cynwyd Club Bala Cynwyd, PA
September 15	<i>Chemistry by FlashMob</i> Dr. Patrick Miller	Bryn Mawr College Bryn Mawr, PA
October 9	Sally Ride Festival	West Chester University
October 16-22	National Chemistry Week	All over Delaware Valley
October 20	Philadelphia Section Award Dr. Robert Pasternack	Swarthmore College
November 9	Ulliyot Lecture Marye Anne Fox	Chemical Heritage Fdn. Philadelphia, PA
December 10	Chemical Demonstrations for Children	Rutgers Univ.-Camden

**Custom Synthesis of Chemicals**  
FTE & Bulk Production in Shanghai, China  
On-time Delivery, Quality & competitive Price

**TYGER Scientific Inc.**  
324 Stokes Ave, Ewing, NJ 08638  
Phone: 888-329-8990; Email: sales@tygersci.com

**NMR Service 500MHz**

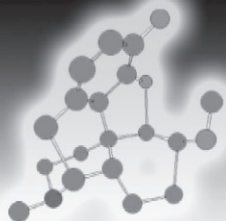
**\*Mass**

**\*Elemental Analysis**

**NuMega Resonance Labs**

**Tel: (858) 793-6057**

**We Focus on Doing Chemistry!**



- FDA Inspected
- cGMP Synthesis
- Controlled Substances
- Custom Synthesis
- Small Lots Manufacturing
- Polymer Chemistry
- Process Development

**Chemo Dynamics, LP**

3 Crossman Road South  
Sayreville, New Jersey 08872  
Phone: 732-721-4700 • Fax: 732-721-6835

www.chemodynamics.com

E-mail: info@chemodynamics.com

John Arnett, Ph.D., Director of Operations



Section's Web Page: <http://membership.acs.org/p/philadelphia>

\$2.00

# the Catalyst

ISSN 0008-767X

September 2005



## 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 19<sup>th</sup>. (Joel Perlish photo)

Send Address Changes to:

American Chemical Society

Department of Member and Subscriber Services

P.O. Box 3337, Columbus OH 43210

PRIORITY HANDLING-DATED MATERIAL-PERIODICAL CLASS

POSTAGE PAID AT PHILADELPHIA, PA



## EASTERN ANALYTICAL SYMPOSIUM

**November 14-17, 2005 Somerset, New Jersey**

### Highlights of the 44th EAS include:

Twenty-four one- and two-day short courses

Sixteen half-day exhibitor workshops

Four student seminars

Sixty-five oral and poster sessions on topics including:

- Pharmaceutical Excipients - Analytical and Regulatory Development
- Emerging Applications in Solid-State NMR Spectroscopy
- PAT in the Pharmaceutical Industry
- High Speed and High Resolution Separations
- Advances in Mass Spectrometry for Disease Biomarkers
- Recent Advances in Spectroscopic Imaging
- Nanotechnology and Emerging Analytical/Bioanalytical Applications
- Homeland Security
- Industrial Microscopy
- High Temperature HPLC: Principles and Applications

*Exhibitors displaying the latest in instrumentation, products, and services catering to those in analytical chemistry and the allied sciences*

For more information on the 2005 Eastern Analytical Symposium please visit our web site at

**www.eas.org**

Or contact us by telephone at **610-485-4633**

by fax at **610-485-9467**

by email at **easinfo@aol.com**

Eastern Analytical Symposium

P.O. Box 633

Montchanin, DE 19710-0633



AstraZeneca Pharmaceuticals proudly announces the  
2005 Excellence in Chemistry Awardees:

**Professor Dean Toste**

*University of California, Berkeley*

**Professor Phil Baran**

*Scripps Research Institute*

The **21<sup>st</sup> 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.*

**AstraZeneca**  
life inspiring ideas

## Directory of Services

### ELEMENTAL ANALYSIS

C, H, N, O, S, P · Halogens · Ash · Metals  
TOC · TOX · BTU · Molecular Weights  
ICP · ICP/MS · IC  
Custom Analysis · Problem Solving

#### HUFFMAN

**LABORATORIES, INC.**  
*Quality Analytical Services Since 1936*

4630 Indiana Street · Golden, CO 80403  
Phone: (303) 278-4455 · Fax: (303) 278-7012  
Chemistry@huffmanlabs.com  
www.huffmanlabs.com



### GATEWAY CHEMICAL TECHNOLOGY

*chemistry to meet your needs*

#### CUSTOM SYNTHESIS

- Pharmaceuticals
- Agrichemicals
- Combinatorial Platforms
- Competitor's Products
- Intermediates
- Analytical Standards
- Metabolites

#### PROCESS DEVELOPMENT

- Process Evaluation
- New Route Development

#### SPECTROSCOPIC SERVICES

- LCMS (APCI and API-ES)
- NMR (300 MHz)
- GCMS (EI)

11810 Borman Dr · Saint Louis, Missouri 63146  
314.220.2691 (office) · 314.991.2834 (fax)  
www.gatewaychemical.com · rjkauffman@aol.com

## SCHWARZKOPF

### Microanalytical Laboratory

Elemental & Trace Analysis  
Organics, Inorganics  
Organometallics  
Metals by AA & Graphic Furnace  
Functional Grps. - Mol. Wt.  
Calorimetry  
Total S, F, Halogens TOX  
Coneq Testing Custom Analysis

56-19 37th Ave. Woodside, N.Y. 11377

(718) 429-6248

Schwarzkopfmicro@aol.com

### Chemical Analysis Services



- Materials ID / Deformulation
- Product Defects
- Failure Analysis
- Polymer Testing

chemir.com  
(800) 659-7659



CHEMIR

Analytical Services

ISO 9001  
Certified

### PROTECT Your Expensive Lab Work With Research and Development Record Books

STOCK RECORD BOOKS  
B50D --- Fifty pages and fifty duplicates  
1/4 inch sqs. on right pages

B100P --- 100 - 1/4 inch sqs. on right pages  
100 - 10 sqs. per inch on left pages.

B200P --- 208 1/4 inch sqs. on right and left pages  
B200PH - 208 horizontally lined right and left pages.  
Books have instruction and TOC's. Page size 11 x 8 1/2.  
Hard extension brown cloth covers. Pages open flat.

\$14.50 EACH, FOB Chicago

CUSTOM MADE BOOKS TO ORDER

Scientific Bindery Productions, Inc.  
2612-18 W. Nelson, Chicago IL 60618

Phone: 773-267-1129 Fax: 773-267-1218

www.scientificbindery

### Advertising Index

ACS	107, 110, 113
AstraZeneca R&D Boston	115
Chemir Analytical Services	114
Chemo Dynamics LP	116
Desert Analytics	113
DuPont Analytical Solutions	113
Eastern Analytical Symposium	102
Gateway Chemical Technology	114
Huffman Laboratories	114
Hydrocarbon Publishing Company	111
MASS VAC, Inc.	112
Micron Inc.	113
NuMega Resonance Labs, Inc.	116
PTI Research, Inc.	113
Robertson Microlit Labs, Inc.	112
Schwarzkopf Microanalytical	114
Scientific Bindery	114
Tyger Scientific Inc.	116

Advertising: Vince Gale, MBO Services,  
P.O. Box 1150, Marshfield, MA 02050,  
phone (781) 837-0424, fax (781) 837-8792,  
email: vincegale@adelphia.net.

# the Catalyst

Official Publication of the Philadelphia Section, American Chemical Society  
Founded April 15, 1899

Volume 90, No. 7

September 2005

	STAFF	TABLE OF CONTENTS	Page
EDITOR-IN-CHIEF:	Robin S. Davis		
EDITORS		October Advance Notice	103
COVER:	Melissa Hess	Chair's Column	104
NEWS ATOMS:	Alan Warren	Volunteers Needed	104
PROOF EDITORS:	Georgia Arbuckle-Keil	September Meeting Notice	105
	Deborah Kilmartin	News Atoms	106
	Marge Matthews	February 2005 Board Minutes	107
	Frank Scholnick	March 2005 Board Minutes	108
	Alan Warren	Speaker Biography	109
MANAGERS		Speaker Abstract	109
BUSINESS:	George Cowperthwaite	Chemical Consultants Network	109
ADVERTISING:	Vince Gale	2005 Election Slate	110
		Scholastic Achievement Awards	111
		Directory of Services	113
		2005 Calendar	116

### PUBLICATIONS COMMITTEE

CHAIR: GEORGE COWPERTHWAIT

Anthony W. Addison	Deborah Kilmartin
Georgia Arbuckle-Keil	Marge Matthews
Robin S. Davis	Frank Scholnick
Vince Gale	Judy Summers-Gates
Robert Gates	Victor Tortorelli
Melissa Hess	Alan Warren

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. Periodical class postage paid at Philadelphia, PA. Subscription rate: Section member, \$2.00; regular subscription, \$4.25; for foreign mailing, \$5.25. 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, 34<sup>th</sup> and Spruce Streets, Philadelphia, PA 19104-6323 or philcatalyst@aol.com.

Advertising: Vince Gale, MBO Services, P.O. Box 1150, Marshfield, MA 02050, phone (781) 837-0424, fax (781) 837-8792, email: vincegale@adelphia.net.

Printed by Priestley Printers, Philadelphia, PA (215) 665-0515

## ADVANCE NOTICE

### OCTOBER MEETING

Philadelphia Section Award

Dr. Robert F. Pasternack

Swarthmore College, Swarthmore, PA

THURSDAY, October 20<sup>th</sup>, 2005

See the OCTOBER issue of *the Catalyst* for details,  
call the Section Office at (215) 382-1589, email PhilaACS@aol.com  
or see our webpage: <http://membership.acs.org/p/philadelphia>



## From The Chair

### Deborah H. Cook



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.

The September meeting is jointly sponsored by the Division of Computers in Chemistry (Comp Chem) and the Philadelphia Section. Michelle Franci has organized a workshop to configure lap top computers into a super computer. Participants will have an opportunity to

actually use the configuration to solve problems. The workshop is appropriate for all levels so feel free to invite your high school and university students to join us at Bryn Mawr College.

Other events for young scientists this fall include the Sally Ride Science Festival hosted by West Chester University in October and the Expand Your Horizons event hosted by Chestnut Hill College. Both of these activities are intended to encourage young girls in science and are related to National Chemistry Week. Check out the section web site for more details.

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 Ulyot 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 NEEDED

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.

## Directory of Services

### ENHANCE YOUR CAREER !

#### VOLUNTEER !

Typical volunteer assignment requires one to two hours a month. Training (both formal and informal) is provided.

philaacs@aol.com

or 215-382-1589

### CATALYST VOLUNTEERS


Reporters needed to cover section meetings and to write industry articles  
**no experience needed**

**Please leave message at:**

PhilCatalyst@aol.com or

PhilaAcs@aol.com or

Phone 215-382-1589



**DESERT ANALYTICS**  
LABORATORY


- CHNOSP Halogens
- Metals by AA / ICP
- Ion Chromatography
- Trace Analysis
- Coal/Petroleum

Fast, Reliable Service

**No Charge for Phone/Fax Results**

P.O. Box 41838 245 S. Plumer, #24  
Tucson, AZ 85717 Tucson, AZ 85719  
Fax 520-623-9218 Phone 520-623-3381

Web: desertanalytics.com  
E-mail: thelab@desertanalytics.com

We Accept:   

ANALYSIS FOR THE CHEMICAL ELEMENTS

### CUSTOM SYNTHESIS (mg→kg)

**Specialties:** Heterocycles, bioconjugates, fluorescent tags, research tools, lipids.

**Other Services:** research/review/optimize synthetic routes for target compounds

PTI Research, Inc. Exton, PA.

www.ptiresearch.com

Tel: 610-280-3325 Fax: 610-280-3338



## DuPont Analytical Solutions

*From rapid, routine testing to complex problem-solving. One of the world's largest, and most diverse analytical laboratories, with the experience to solve your analytical challenges in :*

Electronic Materials • Personal Care • Catalysis • Coatings, Pigments, and Adhesives  
Specialty Chemicals • Films and Packaging • Pharmaceuticals • Plastics • Fibers • Textiles

DuPont Analytical Solutions

P.O. Box 80302

Wilmington, DE 19880-0302

Phone: (302) 695-1018

e-mail: DASolutions@usa.dupont.com

web: <http://analyticalsolutions.dupont.com>

FAX: (302) 695-1717

*Contact us for all your analytical needs.*



## Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION

MORPHOLOGY CHEMISTRY STRUCTURE

SEM/EDXA, TEM/SAED, EPA/WDXA, XRD, XRF, ESCA, AUGER, FTIR, DSC/TGA

3815 Lancaster Pike Wilmington DE. 19805

E-Mail [micronanalytical@compuserve.com](mailto:micronanalytical@compuserve.com)

Voice 302-998-1184, Fax 302-998-1836

Web Page: [www.micronanalytical.com](http://www.micronanalytical.com)

# STOP WASTING \$\$\$ on vacuum pumps!!

## Rebuilding is smart.

A new pump costs **four times** what rebuilding costs.

## Rebuilding is easy.

Just call 978 667 2393 for service second-to-none.

## Mass-Vac does the job right.

- Factory trained technicians.
- Rebuilt and new pumps in stock.
- No-hassle parts and labor guarantee.
- Complete line of filtration and trap systems.

Because a really old, really healthy vacuum pump is a beautiful thing!



**Mass-Vac, Inc.**

247 Rangeway Road ▪ PO Box 359 ▪ North Billerica, MA 01862  
978 667 2393 Fax 978 671 0014 sales@massvac.com www.massvac.com

## Your Partner For Analytical Support Services

Rapid Results • Quality • Accuracy • Competitive Pricing



**Robertson Microlit  
Laboratories**

- Elemental CHN S, X Analysis - same day service
- Atomic Emission Spectroscopy
- Atomic Absorption Spectroscopy
- FTIR Spectroscopy
- UV / VIS Spectrophotometry
- Mass Spectrometry
- Chromatography
- Bioavailability
- Polarimetry
- Calorimetry
- Titrimetry
- Wet Chemistry
- KF Aquametry

P. O. Box 927 • 29 Samson Avenue • Madison, NJ 07940  
Tel: (973) 966-6668 Fax: (973) 966-0136  
www.robertson-microlit.com  
email: results@robertson-microlit.com

## 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 15<sup>th</sup>, 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 8<sup>th</sup>**. **Cancellations**, if necessary, cannot be accepted after **NOON on Tuesday, September 13<sup>th</sup>**. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

**DIRECTIONS:** See Campus map at [www.brynmawr.edu/visit/campusmap.shtml](http://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](http://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. Joullie** and professor of biochemistry and biophysics **Gideon Dreyfuss** 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 at a ceremony held in June at the Chemical Heritage Foundation.

## DEATHS

**Paul Magidman**, former chemist with the U.S. Department of Agriculture, February 4<sup>th</sup> 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 1950s when the technique was in its infancy, working with fats, oils, and wool. He authored or co-authored over 30 papers and obtained a patent for an infrared device that detected smuggled fruit in luggage. Magidman was a 53-year member of ACS.

**Sallie A. Fisher**, president and owner of Puricons, Inc., April 18<sup>th</sup> 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 2<sup>nd</sup> 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 5<sup>th</sup> 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. Brucher, Jr.**, retired chemistry professor formerly with the University of Pennsylvania, June 14<sup>th</sup> 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.

**James W. Wilson III**, former research chemist with Smith, Kline & French, June 21<sup>st</sup> at 85. During WW II he carried out research on antimalarial drugs. He worked for 38 years at Smith Kline, including the product development of Thorazine. After retiring in 1985 he continued to consult for the firm.

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

**Elizabeth D. Strange**, retired research chemist formerly with USDA, July 6<sup>th</sup>. 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-

Continued on page 108

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](mailto:CCNReservations@aol.com) or call the ACS office at 215-382-1589 (leave message on voicemail if necessary).

## 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)

Chemistry:  
Biochemistry:

Rosemary W. Stoertz  
Alison Kim  
Melissa Stopyra  
David Rowe  
Michael E. Socki  
Evan M. Beard  
David R. Lindenmuth  
Marge Ayana  
Brian C. Kovaric  
Claire Coleman  
Mary Ellen Dukart  
John Heckel  
Santisree Tanikella  
Sarah K. Molinar  
Katherine Elizabeth Berry  
Mandrita Datta  
Alan S. Lewis  
Douglas Muth  
Raeanne Napoleon  
Ivan Sergeyev  
Kevin T. Sylvester  
Tricia A. Sladicka  
Christopher Harley  
Adanna L. Vardian  
Ryan Wenrich  
Ryan Wenrich

## 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](mailto:info@hydrocarbonpublishing.com)



anyone wishing to practice setting up an *ad hoc* cluster.

For more information, please go to the web page [FlashMob@brynmawr.edu](mailto:FlashMob@brynmawr.edu).

**Schedule:** 5:30-6:30: Laptop check-in and assembly of the cluster. 6:30-7:30: Informal Dinner, start run. 7:30-8:30: Talk by Dr. Patrick J. Miller and view of results 8:30-9:00: Disassemble cluster and return laptops to owners.

### 2005 Election Slate

**Chair-elect:** David J. Cichowicz  
Judith Summers-Gates

**Secretary:** Melissa Betz Cichowicz  
Anne DeMasi

**Directors:** Rodney Bennett  
David Cichowicz  
Melissa Betz Cichowicz  
Robert Gates  
Amanda Grannas  
Judith Summers-Gates  
Allen Templeton  
Victor Tortorelli  
Eric Williamsen

**Councilors:** Carol Jean Bruner  
Judith Currano  
Deborah Kilmartin  
Cheryl Martin  
John Nikelly  
Patrick O'Brien  
Zheru Zhang

A ballot is mailed by September 1<sup>st</sup> to every section member. If you do not receive your ballot, please get in touch with the Section Office for a replacement. (Phila ACS@aol.com or 215-382-1589)

### THOUGHT TO PONDER

There are two kinds of people: Those who do the work and those who take the credit. Try to be in the first group; there is less competition there. — *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*

## ENHANCE YOUR CAREER ! VOLUNTEER !

Want a simple, inexpensive (i.e., free) way to jumpstart your career? Then volunteer for a committee or two. Committees such as the Social Committee (organizing social hour and dinners for the Section's monthly meetings and then running the social hour) can help you develop organizational and meeting skills as well as help you to network with people from the largest area companies. Public Relations (sending out meeting notices and press releases) can help you to develop an informational network as well as learning how to get noticed! Chairs for both committees are needed—and these positions are risk-free. Think of learning for free and having no pressure (like losing your job if you don't succeed!) in doing so. If you fail, well, you can try something else (but you won't fail) and if you succeed, well, then you have a valuable skill and proven track record for your current or next work position!

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 Publications or Social Committees, involve one or two hours per month most months of the year.

Details on the various committees can be found on our website:  
<http://www.membership.acs.org/p/philadelphia>

or by calling Mrs. Libby Harper at the Philadelphia section office at 215-382-1589.

Send an email ([philaacs@aol.com](mailto:philaacs@aol.com)) or leave a message detailing which committee you'd like to try.

### 569<sup>th</sup> BOARD OF DIRECTORS' MEETING Thursday, February 17<sup>th</sup>, 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.

**Board Members Present:** R. Acchione, C. J. Bruner, C. Carr, D. Cook, E. Davis, A. DeMasi, D. Kilmartin, J. Nikelly, G. Preti, K. Shaginaw, T. Straub, D. Voet.

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

**Absent:** B. Baker, C. Bentzley, M. Cichowicz, F. Goodson, G. Molander, G. Palladino, J. Summers-Gates, V. Tortorelli.

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 Ulliyot Fund to the ACS Investment Pool, if Barbara Ulliyot 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 Ulliyot Fund for its original purpose, to support the Ulliyot Lecture-ship, or redesignate the Fund for another purpose, in consultation with Barbara Ulliyot.
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 commitments 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 Ulliyot Fund to the ACS investment pool will be discussed with Barbara Ulliyot 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

## SURPRISE

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.

**570<sup>th</sup> BOARD OF DIRECTORS' MEETING**  
**Thursday, March 24<sup>th</sup>, 2005**  
**University of Pennsylvania**  
**Philadelphia, PA**

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

**Board Members Present:** R. Acchione, B. Baker, C.J. Bruner, C. Carr, M. Cichowicz, D. Cook, F. Goodson, A. DeMasi, D. Kilmartin, G. Molander, J. Nikelly, G. Palladino, K. Shaginaw, J. Summers-Gates, T. Straub, V. Tortorelli.

**Also:** L. Harper, C. Martin, G. Cowperthwaite.

**Excused:** E. Davis, D. Voet.

**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 Ulyot funds to the Investment Pool, keeping them separate from the Capital funds. Barbara Ulyot has approved the transfer. Appropriate uses for the Ulyot funds were discussed.

The motion to move all of the Ulyot 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 monitoring the performance of the ACS Investment Pool. G. Cowperthwaite suggested moving the FAB to a bylaw status. The Board considered whether the entire bylaws should be reviewed, since this was last done in 1996. This discussion was tabled for a future meeting.

**Nominating Committee**

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 previous 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 16<sup>th</sup>-18<sup>th</sup>, 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. Williamsen; Treasurer G. Cowperthwaite; Development Chair: C. Burcham.

Meeting was adjourned at 5:15 PM.

Respectfully Submitted,  
Carol Carr,  
Secretary

**Continued from page 106**

dition to working on improvements to foods, she developed several methods for studying casein. Dr. Strange was a longtime member and secretary of the Philadelphia Section ACS Publications Committee.

**William C. Forsman**, former chemical engineer and university professor, July 12<sup>th</sup> at 75. After a short career with Hercules Chemical he joined the faculty of the University of Pennsylvania in 1961. He was named professor emeritus in 1994. Dr. Forsman authored numerous papers and books on polymer chemistry.

National ACS reported the following deaths but no details were available: **Donald G. Frier, Jean B. Hill, Guy R. Johnson, and Elgene A. Smith.** Dr. Smith was a 69-year member of ACS.

**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.

---

**CHEMICAL CONSULTANTS  
NETWORK**

Visit our web page at  
[www.chemconsultants.org](http://www.chemconsultants.org)

**Date & Time:** Wednesday, September 14<sup>th</sup>, 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

---

**Continued on page 111**

**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 super-computer 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 RAM. Laptop volunteers will get a t-shirt and everyone is welcome to take home the CD. We will have a practice corral up for