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# the Catalyst

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September 2007



**SEPTEMBER SPEAKER Dr. Chris L. Whittle** 

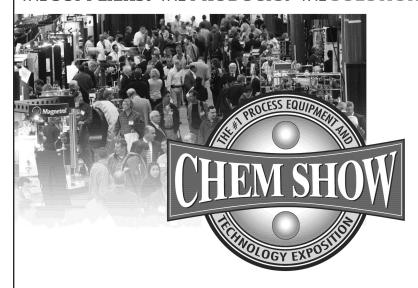
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#### ADVANCE NOTICE

#### OCTOBER MEETING

Philadelphia Section Award Dr. Robert J. Levis Temple University

THURSDAY, October 18th, 2007

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

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### From The Chair



#### David Cichowicz

Welcome back for the "stretch run!" My term as Section Chair is more than half over and the rest of the events for the year are pretty well scheduled. First, some old business: I want to publicly thank everyone who helped make the 2007 MARM such a fantastic success. The Section really shined! I also want to thank Catherine T. (Katie) Hunt, our National President, for speaking at the June meeting and taking the time to talk individually with all the 50-year members who attended.

One of my goals for this year was to have a family event and the September meeting will fulfill that goal. Thanks to Rohm and Haas Company, our event sponsor, we will be holding the September meeting at the Elmwood Park Zoo in Norristown. Zoo will be ours from 6:00 to 9:00 with free admission. Bring the family and visit with the animals. A light dinner of hoagies and sandwiches will be available for a cost of \$10.00 per adult. Children under 12 eat free with a paying adult, but need to make reservations. The event will also feature Dr. Chris L. Whittle, currently at the Monell Chemical Senses Center, speaking about her graduate work on male moose pheromones. So you can attend a talk while the rest of the family enjoys the Zoo! For more details, see the the meeting page of this issue and check the Section website.

If you can help with this year's Section National Chemistry Week Celebration, contact Judy Summers-Gates, our chair for the event at jsummers@fda.hhs.gov.

Finally, please remember to vote! See you at the Zoo!

#### **NEWS ATOMS**

Christopher Kulp promoted to director of the contract services business, and Keith Crumley promoted to manager of product sourcing at Richman Chemical in Lower Gwynedd.

Thomas R. Tritton, president of Haverford College, was named president of the Chemical Heritage Foundation, succeeding Arnold Thackray who founded and led CHF 25 years ago. Thackray will continue with the Foundation in an advisory role. Tritton takes his new position after the fall semester at Harvard University where he will be "President in Residence," working with graduate students in higher education.

#### HONORS AND AWARDS

Eugene Garfield received the Chemical Heritage Foundation's second annual award for supporting industries. He is chairman emeritus of the Institute for Scientific Information and invented the Science Citation Index and similar tools and databases for the improvement of scientific communication. The award recognizes outstanding contributions by a leader who provides products and services that are key to the growth of the chemical and molecular sciences.

Sherrill Adams, professor and chair of biochemistry in the School of Dental Medicine at the University of Pennsylvania, has been named chair-elect of Penn's Faculty Senate. Daniella Fera received a 2007 Excellence in Teaching Graduate Students prize at Penn in the field of chemistry.

**Jeffrey Winkler**, chemistry professor and a founding member of the Center for Cancer Pharmacology, received the University of Pennsylvania's Lindback Award for distinguished teaching.

#### **DEATHS**

**Frank W. Hankins**, 50-year member of ACS, January 16<sup>th</sup>, 2003 at 79. No further details are available.

Carl Alper, former professor of biochemistry, April 2<sup>nd</sup>, 2003 at 82. He taught biochemistry at Hahnemann University Medical School and Temple University Medical School, and was appointed director of clinical laboratories at Temple. He was then named director of BioScience Laboratories in Philadelphia, retiring in 1985. In 1976 Alper chaired the ACS Division of the History of Chemistry, and he was an ACS abstracter for the *Journal of Clinical Chemistry*.

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Howard I. Cramer, (no date or age available), active in the field of rubber chemistry. In 1928 he joined the research division of Goodyear Tire and Rubber Co. and in 1933 took a position as assistant professor of rubber chemistry at the University of Akron. In 1941 he was hired by Sharples Chemicals, which later became Pennsalt Chemicals and then Pennwalt Corp. He retired in 1970. In 1949 he chaired the ACS Division of Rubber Chemistry.

**Peter E. Kucharski**, emeritus member of the Society of Flavor Chemists, April 18th, 2006 at 65.

Frank Scholnick, former researcher with the USDA's Eastern Regional Research Center, April 13<sup>th</sup> at 81. He worked for E. F. Houghton and then Allied Chemical Corp., until he received a research fellowship grant from the American Renderers Association to work at ERRC in 1958. He remained at the Center for over 30 years working on detergents, polymers, and leather coatings.

After retirement Scholnick taught chemistry at Penn State University's location in Abington, and served on the committee for lifelong learning at his synagogue. He was a 50-year member of ACS and served the Philadelphia Section on its Publications Committee as a proofreader for the Catalyst.

Henry H. "Pete" Kohl, retired chemical engineer formerly with DuPont, April 20<sup>th</sup> at 81. Following service in the Navy in the Pacific during World War II, he joined DuPont and worked at Newbury NY, Philadelphia, and Wilmington, retiring in 1985. For over 20 years he served on the boards of Riddle Memorial Hospital and Riddle Village retirement community.

Felice "Phil" J. DeMaria, chemist and former chairman of Para-Chem, April 23<sup>rd</sup> at 90. After working for several firms as a chemist, he joined Para-Chem in the 1950s where he eventually was named director of research and then president. He retired from the firm in the 1980s but served as board chairman until 2003.

**Frank R. Romano**, retired environmental biochemist, May 18<sup>th</sup> at 94. He was a

civilian chemist for the United States Navy from 1941 to 1947, studying the biological break-down of organic military materials. He owned Ambler Laboratories for 43 years, specializing in water testing and consulting, and retired in 1990. He also analyzed herbicides and pesticides for the United Nations Children's Fund.

Romano was an environmental and political activist and ran for congressional office several times but was defeated. In the 1960s he marched for civil rights with Dr. Martin Luther King, and locally was a frequent letter-writer on environmental issues. He was a 59-year member of ACS.

Ralph C. Schreyer, former research chemist with DuPont, June 1st at 87. He worked on the Manhattan project during WWII. He joined DuPont in 1946 and worked for 38 years at the Experimental Station in Wilmington and also in Gibbstown, NJ. He obtained over 50 patents and published widely in the field of polymer chemistry. After working as a patent agent in DuPont's petrochemical department, he retired in 1984.

Schreyer was an avid contract bridge player, and he and his wife, both of whom enjoyed travel, participated in more than 60 Elderhostel programs. He served the New Castle County school board for 25 years and was a 50-year member of ACS.

**Robert J. Kerr**, retired chemist and engineer formerly with DuPont, June 6<sup>th</sup> at 80. He worked for DuPont for 32 years where he was also on the team that developed Crolyn for use in magnetic tape for video and audio use. After retiring from DuPont in 1984, he operated R.J. Kerr Audio/Video Services for 20 years. He wrote a number of articles and books on video recording.

Beginning in 1936 Kerr performed in over 50 productions of the Players Club in Swarthmore and directed many of the shows as well. He loved to portray Benjamin Franklin and appeared in that role at DuPont trade shows, and in promotional videos for the insurance industry and the National Park Service.

Morris Deglin, former forensic chemist for the Philadelphia Police Department, July  $4^{th}$  at 87. He served as an Army artillery spotter and medic in the Battle of the Bulge in WWII. He then joined the Philadelphia General Hospital in 1948 as a lab technician, and later worked for the New Jersey state government in Trenton as a chemist.

In 1968 Deglin joined the Philadelphia Police chemistry lab, analyzing blood and other materials gathered in crime detection, looking for alcohol and drug use. He retired from the lab as supervisor in 1997 and later moved to California.

Charles B. Egolf, chemical engineer formerly with Rohm and Haas, July 24th at 102. He worked on the Manhattan Project during WWII in Oak Ridge, TN, and also helped develop the use of Plexiglas for fighter plane windshields. He was employed by Rohm and Haas in the field of polymers for 36 years, retiring in 1966. In retirement he continued his lifelong interest in watercolor painting and exhibited at many art shows.

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

# CHEMICAL CONSULTANTS NETWORK

Visit our web page at www.chemconsultants.org

**Date & Time**: Tuesday, September 11<sup>th</sup> at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM. PLEASE NOTE TUESDAY DATE!

**Speaker and Topic:** Dr. Marc Halpern, *E-marketing for a Consulting Practice.* 

**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). Fee, including food and beverages, is \$35.

Early Bird discount price is \$25 if reserved by Thursday, September 6<sup>th</sup>. Late reservations and walk-ins subject to availability. Noshows will be invoiced.

Abstract: Marc Halpern decided to launch his chemical consulting business after attending a CCN meeting in 1996. Marc uses a combination of seven marketing methods to grow his chemical consulting business. As a result of anti-spam laws, Marc was forced to upgrade his monthly E-newsletter. In the past two years Marc estimates that the impact of integrating the new "PTC Tip of the Month" with his other marketing methods has been in the range of \$50,000 to \$100,000 per year. In this talk, Marc will describe the simple mechanics, the low cost, the effective results and most importantly what he thinks he learned about designing his monthly E-newsletter to increase profit.

### The Philadelphia Section thanks

#### **Ursinus College**

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#### for a wonderful and successful MARM

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**Program Co-Chairs:** Lynn Abell and Anthony W. Addison

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### SEPTEMBER MEETING

# THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

### presents

# FAMILY NIGHT AT THE ELMWOOD PARK ZOO

# with

Dr. Chris L. Whittle

### Monell Chemical Senses Center

The Chemical Ecology of Moose (Alces alces gigas): Characteristic Urinary Components of Male Alaskan Moose

Thursday, September 20<sup>th</sup> 6:00 to 9:00 PM

Admission to the Zoo is FREE

Light Dinner Cost: \$10; children under 12 with a paying adult eat FREE Students over 12 are half price RESERVATIONS REQUIRED FOR DINNER!

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 by Thursday, September 13th. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, September 18th. UNCANCELLED RESERVATIONS WILL BE BILLED. No reservation needed for Zoo attendance only.

**DIRECTIONS** can be found at http://elmwoodparkzoo.org/visit/directions.html

The Board of Directors will meet at 5:00 PM at the Zoo.

# Celebrating 23 years ...



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Sponsored by the AstraZeneca Chemistry Department, these awards are presented annually to two talented academic researchers affiliated with universities in the United States and Canada, in recognition of outstanding research in synthetic, mechanistic, or bio-organic chemistry.



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# SPEAKER'S ABSTRACT AND BIOGRAPHY

The Chemical Ecology of Moose (Alces alces gigas): Characteristic Urinary Components of Male Alaskan Moose

#### Dr. Chris L. Whittle

Monell Chemical Senses Center

**Abstract:** Olfactory communication and associated scent-marking activities play a major role in the behavioral ecology of many mammals. During the mating season (rut), scent-marking associated with urine of male cervids is an important chemical cue to relay information to conspecifics. Specifically, adult male moose (*Alces alces*) dig rutting pits in which they urinate, and females respond strongly to urine deposited in pits.

I tested the hypothesis that female moose spent more time investigating urine of adult male moose during rut than from nonrut. Urine samples of both nonrut and rut urine were presented to females.

Females spent significantly more time investigating samples of rut versus nonrut urine. Only the rut urine elicited the characteristic behaviors associated with the mating season. Additionally, urine from the rut contained more volatile compounds and in elevated levels in contrast to nonrut urine as determined by gas chromatography/mass spectrometry analyses.

These results indicate that male urine from the rut contains constituents that may act as pheromones, which synchronize and prime estrus.

Biography: It was at an early age when I discovered my love for science. I had the rare opportunity to actually practice science in a rural community: I "played" with species of both vertebrates and invertebrates. I wondered why the pretty little spider that caught my curiosity had a red hour glass on its abdomen. Perhaps, instinctively, I decided not to let my curiosity get the better of me and, therefore, I did not disturb the Black Widow spider.

To pursue my scientific curiosities, I attended California State University Hayward where I graduated with a BS in Biology.

After graduating, I lived in Sweden for two years but decided that the USA was one of the best places to pursue a degree in Wildlife Biology.

Under the excellent mentorship of R. Terry Bowyer, PhD, I obtained my MS in Wildlife Biology from the University of Alaska Fairbanks in 1999. Under the excellent mentorship of Thomas P. Clausen, PhD, in 2005, I received my PhD in Chemical Ecology that investigated urinary pheromones in male moose.

I am currently a Post-Doctoral Fellow at Monell Chemical Senses Center located in Philadelphia, PA. Under the excellent mentorship of George Preti, I am investigating a rare genetic metabolic disease in humans—Trimethylaminuria.

# AWARD FOR AFFORDABLE GREEN CHEMISTRY

The American Chemical Society has established a new Award for Affordable Green Chemistry. Supported by an endowment from the Rohm and Haas Company, it recognizes outstanding scientific discoveries that lay the foundation for environmentally friendly products or manufacturing processes at a cost comparable to or less than current technologies. The award also recognizes discovery of new eco-friendly chemistries with the potential to yield products or manufacturing processes that are less expensive than existing alternatives.

The first recipient will be recognized at the Society's 2009 spring national meeting in Salt Lake City, UT. The award consists of \$5,000, a certificate and a plaque. Nominations are now open with an application deadline of November 1st, 2007. For additional details and nomination criteria, and to apply for the award, visit ACS Award for Affordable Green Chemistry at http://www.chemistry.org/portal/a/c/s/1/acsdisplay.html?DOC=awards\ Affordable\_Green\_Chemistry.html

# ACS PROJECT SEED AT THE UNIVERSITY OF PENNSYLVANIA

Project SEED is national program of the ACS designed to encourage economically disadvantaged high school students to pursue career opportunities in the chemical sciences. The national program, established in 1968, relies on volunteer scientists in academia, industry, and government to establish eightweek summer student research projects.

The current program at the University of Pennsylvania, which is now in its fourth year, began as the result of my meeting John Sheats, the Project SEED coordinator and advocate at Rider University, at a biochemistry symposium held in Philadelphia. applied for and was awarded a grant for two student fellowships from the ACS. I soon found a colleague who was keen to mentor the second student. Next we had to find the two students, and this proved harder than expected. In fact, one of the two dropped out before she started. (She had found a higher paying job in a restaurant.) The remaining student, Alan Nesbitt from South Philadelphia High School, successfully completed the program and entered University of Pittsburgh the following year.

I knew I needed a better method of recruiting students to the program, so I met with Ron O'Neal, the Assistant Director of the Educational Opportunity Center at Penn. With his expertise in reaching out to disadvantaged populations we put together a selection system that consists of a student nomination by a high school science teacher, a written application with essay, and an on-campus interview and informational visit with the student and his or her parent/guardian. With this system in place we can both inform all the nominees and their families of the importance of science and higher education and choose the students who will be best suited to program.

The Project SEED students work one-on-one with a scientific mentor (typically a graduate student, research assistant, or postdoc) on their own research projects. This year Jin Gao from Benjamin Franklin High School is studying Iron regulated gene expression under my direction, and Christopher Griffin from Lamberton High School is studying Hydrogen release from ammoniaborane with postdoctoral fellow Laif Alden. It is quite a step for these students to move from a high school chem lab to a world-class university research lab, which requires both academic ability and personal maturity. After a couple of weeks, the students gain the skills and understanding required to move their projects forward.

As part of their projects the students write research reports. This year I arranged for volunteer writing tutors and a workshop from Penn's Critical Writing Program to assist with the writing. At the end of program the students present their work to their research groups. It is a real challenge for the high schoolers to stand up in front of graduate students,



University of Pennsylvania Project SEED Students and Mentors in front of the Edgar Fahs Smith statue, left to right: Simon Knight, Jin Gao, Chris Griffin and Laif Alden.

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postdocs, and professors and talk about their research. However, the compliments and congratulations they receive provide a reward for their hard work and the affirmation that they can be "real scientists."

This program would not be possible without grants provided by the American Chemical Society and matching funds from the Diversity Fund of the University of Pennsylvania that provide the students with generous fellowships.

Simon A.B. Knight, PhD, Research Assistant Professor, University of Pennsylvania School of Medicine.

Web site: http://www.med.upenn.edu/seed

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#### 590<sup>th.</sup> Board of Directors Meeting Thursday, March 8<sup>th</sup>, 2007 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.

Present: D. Cichowicz, A. DeMasi, M. Falcone, J. Falcone, Jr., Sr. R. Mulligan, R. Gates, J. Summers-Gates, D. Thomas, C.J. Bruner, D. Cook, K. Shaginaw, J. Tierney, E. Davis, V. Tortorelli.

**Excused:** T. Straub, C. Rulli, M. Cichowicz. **Absent:** C. Bentzley.

Also Present: L. Harper, H. Whalen.

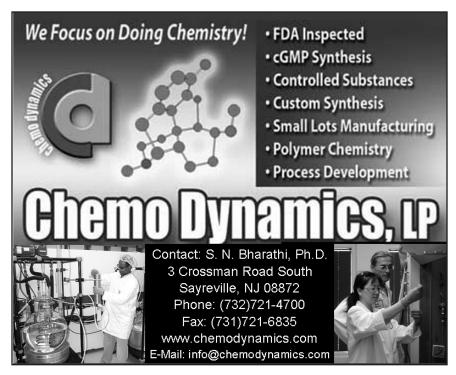
The meeting was called to order by Chair Cichowicz at 4:15 PM.

**Minutes:** A motion to approve the minutes from the January 2007 meeting passed unanimously. A motion to approve the February 2007 meeting minutes passed with two abstentions.

#### **COMMITTEE REPORTS:**

**Nominations:** M. Prushan from La Salle University has been nominated to serve as Alternate Councilor for one year. The motion passed unanimously.

**Councilors:** the Pre-Council meeting in preparation for the Chicago meeting will be held



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on March 14th from 12-1PM. Ten Councilors and two Alternates will be in attendance at the Chicago Council meeting.

#### **OFFICER REPORTS:**

Chair (D. Cichowicz): The April meeting will be held at the Cynwyd Club. Dr. Kevin Hicks from the Department of Agriculture will be the speaker. The Student Award winners are invited to the NHCL designation at the FDA site in Wyndmoor.

Earth Day—this year's Earth Day activity will be a Haiku contest. Students in grades K-12 may participate. April 4th is the deadline for paper submissions. April 9th is the deadline for electronic submissions. Each school may submit three per grade.

Chair Cichowicz presented the Ullyot Award for Meritorious Service to Henry Whalen. The Board members thanked and congratulated Hank for his wonderful service and dedication to the Philadelphia Section.

**Chair-Elect:** E. Davis thanked L. Harper for sending out the teacher award nomination packages. The deadline is next week. Winners must be selected before the next Board meeting.

Secretary (A. DeMasi): No report

Treasurer (C.J. Bruner): The MARM 2007 budget line item needed to be adjusted to pick up an error from last year. The MARM budget is being handled out of the local Section bank

account and by the Section Treasurer at this time. C.J. Bruner also reported that the Section has not received the allotment from National but we have received the dues collected by National (\$23K). A motion to accept the Treasurer's report passed unanimously.

#### **OTHER BUSINESS:**

- 1. Registration for MARM 2007 is taking place. Winners of the E. Emmet Reid Award for 2006 are being considered for the MARM Regional HS Teaching Award. Chairs are needed for the Analytical and Physical Chemistry sessions.
- 2. Expand Your Horizons is scheduled at Chestnut Hill College on March 17<sup>th</sup>, and 132 6<sup>th</sup> grade girls have signed up to participate. Amanda Grannas from Villanova University will be the keynote speaker.
- 3. The Section has received a note of thanks from Madeline Jouillé.

There being no other business, the Board meeting was adjourned at 4:39 PM.

Respectfully submitted,

Anne S. DeMasi, Secretary



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ANALYSIS FOR THE CHEMICAL ELEMENTS

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#### 591st Board of Directors Meeting Thursday, April 19th, 2007 The Cynwyd Club Bala Cynwyd, PA 19004

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

**Present:** D. Cichowicz, D. Kilmartin, C.J. Bruner, D. Cook, J. Falcone, M. Falcone, R. Gates, K. Shaginaw, T. Straub, J. Summers-Gates, and via teleconference E. Davis, Sr. R. Mulligan, D. Thomas, J. Tierney and V. Tortorelli.

**Excused:** M. Cichowicz, A. DeMasi, C. Rulli, A. Templeton.

Absent: C. Bentzley.

**Also:** E. Harper, M. Angelella, J. Crawford and J. Eddy.

The meeting was called to order by Chair Cichowicz at 4:12 PM.

A motion to approve the March minutes as amended was carried with three abstentions.

#### **COMMITTEE REPORTS:**

National Chemistry Week Committee (NCW)/Graduate School Forum (E. Harper for A. DeMasi): E. Harper reported that A. DeMasi was looking for approval to continue the event and to choose a date. The Chair spoke for the Board, saying that so long as A. DeMasi was willing to chair the event, the event should continue and A. DeMasi should choose a date that works for her and Villanova.

Chair Cichowicz is planning to ask for NCW volunteers in his May column in *the Catalyst* and that Committee Chair J. Summers-Gates should plan an June NCW committee meeting.

Publications Committee: D. Kilmartin reported that the committee is already planning the special August 2008 edition of the Catalyst for the National Meeting in Philadelphia; anyone interested in either chairing or writing for the issue should contact her. All contributors for the 2004 special issue are welcome to either re-submit or write new copy. Chair Cichowicz suggested that copies of the 2004 special issue should be made available at MARM. T. Straub suggested that fewer copies should be printed for 2008 than in 2004. D. Kilmartin reported that the committee plans to print about 10,000 extra copies, not 15,000 as before. A suggestion was made to have only electronic copies available for the National Meeting. An electronic copy will be available but D. Kilmartin felt that extra printed copies should still be printed.

**Nominations Committee:** D. Kilmartin reported that the slate of candidates for 2008 elections isn't ready to present to the Board. Names of potential candidates are welcome, especially for Chair-Elect.

#### OFFICERS REPORTS:

Chair Report: Chair Cichowicz reported that the USDA Eastern Regional Research Laboratories (ERRC) National Landmark dedication ceremony went well. Free potato chips were distributed and a wonderful presentation on dried potato flakes was made. National ACS Chair Catherine T. (Katie) Hunt was a speaker.

Chair Cichowicz reported he had tried to contact a board member who has missed three meetings in a row but received no reply. After some discussion, a motion was made to vacate the position on the Board. Chair Cichowicz will contact past nominees to fill the position.

Chair Cichowicz asked if members of the Board received an email from Mark O'Brien at national concerning a local section needs survey. Not all present had. The survey will be sent to all Board members who are to send their responses for submission to national by the May 21st deadline.

The Chair also reported that the June meeting will be held at the Cynwyd Club and the September meeting will be held at the Elmwood Park Zoo in Norristown

The Chair had received a number of certificates for 60-year members in addition to the customary 50-year member certificates. It was decided to send on the certificates to the 60-year members and to print the names of those agreeing to be recognized in the Catalyst.

The Coriell Institute sent a letter thanking us for our contribution to their science fair program.

Chair-Elect Report: E. Davis reported that a teacher in the K-8 grade category was chosen for the elementary school teacher's award, John Mc Ginley of Devon Prep. In the 9-12 grade category, Madeline Fenner of Camden Academy Charter School was selected. Dr. Oliver Ludwig of Villanova was selected for the Merck Excellence in Undergraduate Teaching award. Last year's high school teacher awardee, Scott Zgraggen, will be our nominee for the high school teaching award at the Middle Atlantic Regional Meeting (MARM) at Ursinus University this year.

Secretary Report (A. DeMasi): No report.

**Treasurer Report (C.J. Bruner):** There was a problem with the treasurer's report. Some of the Board members printed out only the MARM report and did not print out the March Treasurer's report. Acceptance of the March report was tabled until then.

Treasurer Bruner asked the Board if they would like to continue having National collect the Section dues. She also asked if the Board wanted to raise the dues higher than \$10 per year. It was the consensus of the Board that National should continue to collect the dues and no raise is needed at this time.

#### OTHER BUSINESS:

- 1. Sr. R. Mulligan reported that she would have to resign her position on the Board effective December 31<sup>st</sup> as her professional duties have changed, requiring considerable travel. She will remain active in other roles.
- 2. T. Straub reported on the ChemOlympiad. The Section has lost one seat from last year, being allowed only 23 students instead of 24. Twenty-one schools submitted applications, with a median of 14 students per school. Twenty-one students were selected (only two per school allowed) with 12 teachers. The International ChemOlympiad will be held in Moscow, Russia. Posters are available announcing the international Olympiad. A new location may be needed for next year, as La Salle is renovating their laboratories beginning this fall. A school with 22 lab spaces and a large lecture hall is required.
- 3. K. Thrush-Shaginaw reported that the spring "Expand Your Horizons Mini-Conference for Sixth Grade Girls" (EYH) was cancelled on March 17<sup>th</sup> due to snow. It will not be rescheduled. The March speaker, Amanda Grannas from Villanova, will speak on November 3<sup>rd</sup> instead.
- 4. Erika Martin and John Crawford will be attending the Rohm and Haas Spring House outreach program, representing the Section.
- 5. V. Tortorelli reminded the Board that registration for the MARM continues until April 26th. There will be a table available to display ACS membership materials as well some issues of *the Catalyst*. It was suggested that the special 2004 issue, with its local activities guide, should be brought as well.

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

Respectfully submitted,

Deborah E. Kilmartin, Acting Secretary

#### 592<sup>th.</sup> Board of Directors Meeting Thursday, May 17<sup>th</sup>, 2007 Ursinus College Collegeville, PA

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

**Present:** D. Cichowicz, E. Davis, A. DeMasi, C.J. Bruner, J. Falcone, Jr., M. Falcone, R. Gates, J. Summers-Gates, C. Rulli, K. Thrush-Shaginaw, T. Straub, D. Thomas, J. Tierney, V. Tortorelli.

**Excused:** M. Cichowicz, A. Templeton, D. Cook, Sr. R. Mulligan.

Also Present: L. Harper, M. O'Brien.

The meeting was called to order at 4:05 PM by Chair Cichowicz. The minutes for the April 2007 meeting were approved as amended.

#### **COMMITTEE REPORTS:**

Councilors Committee: A. DeMasi reported that the divisor for determining the number of local section councilors per section is 453. Based on the number of local section members, this does not affect the Philadelphia Section. Several other sections gained or lost one councilor.

NCW: J. Summers-Gates hopes to have a newsletter ready by June describing this year's activities.

Graduate School Forum (under NCW) (A. DeMasi): The Board discussed the Graduate School Forum in terms of decreasing attendance by both students and universities. All agreed that Jim Burke's absence has had a negative effect on the program. A. DeMasi agreed to confirm a date at Villanova University. Anne will send a list of universities invited in the past and has requested that Board members assist in making contacts at these universities. Matt O'Brien offered to assist with the program if needed.

#### **OFFICER'S REPORTS:**

**Chair:** D. Cichowicz informed the Board about a request for funding for a student to travel to the National meeting in Boston. The Board will vote on the issue at the June Board meeting.

Chair-Elect: E. Davis provided the Board with a written report and announced the recipients of the teaching awards for 2007.

John McGinley - K-8.

Madeline Fenner - High School.

Dr. Oliver Ludwig – Merck Excellence in Undergraduate teaching.

Secretary (A. DeMasi): No report.

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Treasurer (C. J. Bruner): Line item 4120 will be updated with the correct header. There were no other items to highlight or discuss in the budget. It was noted that approximately 800 people registered for the MARM 2007. The Section will do well financially mainly due to the great generosity of Ursinus College.

Treasurer's Report for May 2007 was approved. The March report was approved by default as its results were included in the May report.

#### OTHER BUSINESS:

Deb Kilmartin reported that she is working on the slate for the 2008 elections and is still seeking candidates for several positions.

Chair Cichowicz reviewed a survey sent on

behalf of D. Richard Cobb, Chair, ACS Action Team G. The survey relates to National support for local section activities. The Board assisted Dave with completing the survey on behalf of the Section.

There being no other business, the meeting adjourned at 5:00 PM.

Respectfully submitted, Anne S. DeMasi, Secretary

#### **ERRATUM**

We apologize to 50-year member Dr. Norman Vorchheimer for misspelling his name in the June issue.



Ella Davis (R), Awards Committee chair, presenting the Philadelphia Section Pre-College High School Teaching Award to Madeline Fenner of the Camden Academy Charter High School.



Awards Chair Ella Davis with Philadelphia Section Pre-College Teaching Award winner for K-8 John McGinley of Devon Preparatory School (center) and Merck Undergraduate Teaching Award winner Oliver Ludwig of Villanova University. — *Joel Perlish photo* 



Sharon L. Haynie (middle) receives the Regional Volunteer of the Year Award from Anthony W. (Tony) Addison, Program Co-Chair 39th MARM and Catherine T. (Katie) Hunt, President - ACS.

#### SCHOLASTIC ACHIEVEMENT AWARD WINNERS, 2007

Arcadia University

Cheyney University of Pennsylvania

Delaware Valley College Drexel University (Chemistry)

Drexel University (Chemical Engineering) Eastern University (Biochemistry)

Haverford College Immaculata University LaSalle University Lincoln University

Rutgers, The State University St. Joseph's University Swarthmore College Temple University

University of Pennsylvania (Chemistry) University of Pennsylvania (Chemical and

Biomolecular Engineering)

University of the Sciences Chemistry:

in Philadelphia Biochemistry: Kate Ashley Beishline Jonathan M. Darmon Ursinus College

Villanova University (Chemistry)

Villanova University (Chemical Engineering)

West Chester University

Widener University (Chemistry)

Widener University (Chemical Engineering)

Michael Aviles

Fogwe E. Fomunyam

Thomas Reffle Malka Lev

Thomas G. Salerno

Carolyn Pennay

Mark G. Maienschein-Cline

Elizabeth Crowe DianaTomezsko Yetunde Ibrahim Lisa Siblev David P. Bulkley Benjamin Thuronyi Megan Ruth Elliott Jessica Dweck

Jessica Nixon

Sweta Vania

Ved Desai Jon Lundin Jennifer Eddy Maria Angelella Robert Hickey Robert Rodgers



Scholastic Achievement Award winners at the April dinner. Front row, L to R: David P. Bulkley (St. Joseph's University), Maria Angelella (West Chester University), Thomas Reffle (Delaware Valley College), Jonathan M. Darmon (Ursinus College), Jon Lundin (Villanova University); back row, L to R: Ved Desai (Villanova University), Malka Lev (Drexel University), Jennifer Eddy (West Chester University), Mark G. Maienschein-Cline (Haverford), Jessica Nixon (University of the Sciences), Kate Ashley Beishline (University of the Sciences), Lisa Sibley (Rutgers), Robert Rodgers (Widener University), Elizabeth Crowe (Immaculata University). —Joel Perlish photo

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#### **CANDIDATES IN THE 2007 ELECTION**

<u>Chair-Elect</u>: Robert Gates <u>Councilors</u>: Robert J. Levis

Alan Heldon Erica Martin

Margaret Matthews

(PhilaACS@aol.com or (215) 382-1589).

Secretary: Deborah Kilmartin James Murray

John Tierney

Robert Pascoe

Ping Cao

Russell Phifer

Directors: Ping Cao
Anne DeMasi

Classic Michael Prushan
Kathleen Thrush S

Sheldon Miller Kathleen Thrush Shaginaw Christopher Petucci Judith Summers-Gates

Kathleen Thrush Shaginaw Hank Whalen

Thomas Stambaugh
Thomas Straub

Patrick Sullivan

Judith Summers-Gates

Kendra Yoder

A ballot is mailed September 1st to every
Section member. If you do not receive your
ballot by September 15th, please get in touch
with the Section Office for a replacement

Councilors: Georgia Arbuckle-Keil

Judith Cohen Judith Currano Ella Davis Robert Gates

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#### **NATIONAL CHEMISTRY WEEK POSTER CONTEST!!**



The Philadelphia Local Section of the American Chemical Society is sponsoring a poster contest for students Kindergarten – Grade 12.

Students are invited to create a poster that celebrates the theme "The Many Faces of Chemistry." The poster should be fun, motivational and inspire students to pursue a science/chemistry-related career.

Local Section Prizes...Prizes...Prizes...

First Place in each of the following grade categories:  $K-2^{nd}$ ;  $3^{rd}-4^{th}$ ;  $5^{th}-8^{th}$ ;  $9^{th}-12^{th}$ 

Will receive the ACS Tee Shirt of their choice!

There will also be prizes for teachers of winning students - A *Periodic Table of the Elephants* poster!

Local winners will also be entered in the National Contest and be eligible for additional prizes at the National Level

# DEADLINE TO ENTER: POSTERS MUST BE RECEIVED BY October 8th, 2007

For additional information on NCW, rules and submission, contact:

Philadelphia Local Section Coordinator: Judy Summers-Gates, (215) 717-3008; email: Judith.Summers-Gates@fda.hhs.gov

Philadelphia Local Section Office: (215) 382-1589; email: philaacs@aol.com

Section home page: http://membership.acs.org/p/philadelphia National: 1-(800) 227-5558, ext. 6097; email: ncw@acs.org ACS homepage: www.chemistry.org (search on NCW)

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Fifty-year Members at the June Luncheon in Their Honor. Front row, L to R: Jay Basch, John Carson, Charles Signorino, James King, Norman Vorchheimer; rear: Edward Thornton, Norman Schwartz, William Golton, James Komerska, Richard Turner, Robert Albright, Robert Leonetti, Evelyn Baker.

#### **BOOK REVIEW**

Fundamentals of Industrial Catalytic Processes, 2<sup>nd</sup> edition, by C. H. Bartholomew and R. J. Farrauto. 8 <sup>3</sup>/<sub>4</sub> by 11 ½ inches, casebound, 990 pages, Wiley Interscience, Hoboken NJ, 2006. ISBN 0471457132, \$99.95.

The book is designed as a handbook for practitioners and a textbook for students and faculty. It is divided into two parts—the first dealing with an introduction to the subject and its fundamentals, and the second part focusing on industrial practice. A seven-page nomenclature defines abbreviations and symbols used in the book.

A brief history of catalyst technology includes a list of catalyst producers and their end uses. The part one chapters cover the fundamentals of catalysis, properties of catalyst materials, properties of catalysts and their selection, reactors and activity testing, and the deactivation of catalysts.

Part two reviews industrial practices including hydrogen production and synthetic gas reactions, hydrogenation and dehydrogenation of organic compounds, catalytic oxidations, petroleum refining, environmental catalysis, special types of catalysis (homogeneous, enzyme, polymerization), and fuel cell catalyst technology.

Each chapter ends with a suggested list of references for further study, detailed literature citations, and an exercise of questions to test the reader's understanding of the chapter. An extensive glossary and index conclude the book. This is a fine introduction to, and reference for, industrial catalysis.

- Alan Warren

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Advanced Inorganic Chemistry (56:160:531), Biochemistry I (56:15:511), Mechanisms in Organic Chemistry I (56:160:509), Radiochemistry & Radiation Chemistry (56:160:545) and Special Topics: Chemical Toxicology (56:160:575).

For further information contact: Dr. Georgia Arbuckle-Keil: 856-225-6142; <u>gradchmr@camden.rutgers.edu</u>; http://camchem.rutgers.edu Prospective graduate students may obtain information at:

http://catalogs.rutgers.edu/generated/cam-grad/index.html and should submit an application on-line: http://gradstudy.rutgers.edu

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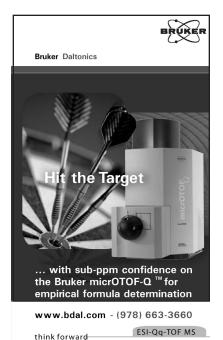
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#### PHILADELPHIA SECTION, ACS 2007-2008 CALENDAR OF EVENTS

| <b>DATE</b><br>TBA               | EVENT<br>AIChE<br>http://aiche-philadelphia.org  | LOCATION   |
|----------------------------------|--|--|
| TBA                              | Chromatography Forum of the Delaware Valley, www.cfdv.org  |  |
| Sept. 10                         | Delaware Valley Mass Spectrometry<br>Dan Morgan, BMS<br>uHPLC/MS/MS of Small Molecules<br>http://science.widener.edu/svb/msdg/ | Villanova University<br>Villanova, PA            |
| Sept. 11                         | Chemical Consultants Network Dr. Marc Halpern <i>E-marketing for a Consulting Practice</i> www.chemconsultants.org/            | The Cynwyd Club<br>Bala Cynwyd, PA               |
| Sept. 20                         | Family Night at the Zoo<br>Dr. Chris L. Whittle<br>Monell Chemical Senses Center<br>The Chemical Ecology of Moose              | Elmwood Park Zoo<br>Norristown, PA               |
| Oct. 18                          | Philadelphia Section Award<br>Dr. Robert Levis   | Temple University<br>Philadelphia, PA            |
| Oct. 21-27                       | National Chemistry Week  | All over the Delaware Valley                     |
| Oct. 28-30                       | ACS Prospective Conference<br>PK/PD for Medicinal Chemists<br>www.acsprospectives.org  | Westin Philadelphia<br>Philadelphia, PA          |
| Nov. 1<br>1 <sup>st</sup> Thurs. | Ullyot Lecture: Shirley Tilghman<br>Princeton University   | Chemical Heritage Foundation<br>Philadelphia, PA |
| Nov. 3                           | Expand Your Horizons Mini-Conference for Sixth Grade Girls   | Chestnut Hill College<br>Philadelphia, PA        |
| Dec. 8                           | Herb Bassow Memorial Chemistry<br>Demonstration and Hands-on<br>Program  | La Salle University<br>Philadelphia, PA          |
| Mar. 24-29                       | NOBCChE National Meeting   | Philadelphia, PA                                 |
| April 6-10                       | ACS Spring National Meeting  | New Orleans, LA                                  |
| May 18-21                        | Middle Atlantic Regional Meeting (MARM) www.marmacs.org/2008/index.html  | Queensborough Community Coll.<br>New York        |
| Aug. 17-21                       | ACS Fall National Meeting  | Philadelphia, PA                                 |

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