

the Catalyst



ACS
Chemistry for Life™

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March 2015
Volume 100, No. 3



EDGAR FAHS SMITH LECTURE
Dr. Ben Widom
Cornell University

HIGHLIGHTS

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ADVANCE NOTICE

APRIL MEETING

Thursday, April 16, 2015

Undergraduate Student Awards

McCall Meeting and Conference Center
Upper Darby, PA

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

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Comments From The Chair



Dr. Bill Smith

Our February meeting has come and gone. Members who braved the cold night to see Dr. Amanda Grannas' presentation, *The Fascinating World of Snow Chemistry (and why you shouldn't eat the yellow snow)* found it to be worth dealing with the adversity that the weather presented. Amanda won our undergraduate teaching award in 2014 and her skills as an enthusiastic communicator came across well. She has been researching the interesting photochemistry of pollutant molecules found on the surface layers of

arctic ice crystals. Her presentation, which included some of her famous music videos, covered the brief history of arctic environmental chemistry and what the chemical interactions of the north have to do with the chemical enterprise of the lower 48 states. She also told a tale or two of adventure!

We will next gather on March 19th at the University of Pennsylvania for the annual Edgar Fahs Smith Lecture. The lecture's namesake was three times President of the American Chemical Society, a member of the National Academy of Sciences, and Priestley Medalist. This year's lecturer will be Dr. Ben Widom, who is the Goldwin Smith Professor of Chemistry Emeritus and Graduate School Professor of Chemistry at Cornell University. His research interests include physical chemistry and statistical mechanics. In 1998, Dr. Widom was awarded the Boltzmann Medal "for his illuminating studies of the statistical mechanics of fluids and fluid mixtures and their interfacial properties, especially his clear and general formulation of scaling hypotheses for the equation of state and surface tensions of fluids near critical points." He was elected a member of the National Academy of Sciences in 1974 and a fellow of the American Academy of Arts and Sciences in 1979.

Thank you for all that you do! For those wishing to get more involved with our Section, my door is always open.

willsmith2@aol.com (215) 638-7453

CHEMAGINATION COMPETITION

We are excited to announce the Spring 2015 ACS Local Section Chemagination Competition on the Princeton University Campus. This is a team competition of two or three students per team. Intent to participate has already been received by eight teams in the Princeton area, as of mid-January.

You can read about Chemagination 2015 at Princeton University at:

chemists.princeton.edu/pacs/outreachactivities/chemagination/. The poster competition will be at Princeton University, Saturday afternoon, June 13, 2015.

With the prior approval by your teacher, please communicate your entry intention as soon as possible on the online Entry Form, available at the link above.

MARCH MEETING

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY
and
THE DEPARTMENT OF CHEMISTRY, UNIVERSITY OF PENNSYLVANIA

present the

2015 Edgar Fahs Smith Memorial Lecture

Thursday, March 19, 2015

Dr. Ben Widom

Graduate School Professor of Chemistry
and Goldwin Smith Professor of Chemistry Emeritus, Cornell University

A Tale of Three Equations: Thermodynamics and Molecular Correlations

6:00 PM

Carolyn Hoff Lynch Lecture Hall
Chemistry Building, University of Pennsylvania
34th and Spruce Streets, Philadelphia, PA 19104

Reception

5:00-6:00 PM in the Alumni and Faculty Hall of Fame, Chemistry Building

The reception and lecture are free

DINNER following the lecture at Penne Restaurant, 3611 Walnut Street, Philadelphia.

Dinner cost: \$40; Students with reservations and ID: \$20

RESERVATIONS should be made by calling Mrs. Harper at the section office, (215) 382-1589, or emailing PhilaACS@aol.com by 5:00 PM Thursday, March 12th. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, March 17th. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

PARKING is available in the Drexel University garage on Ludlow Street (from Market Street go south on 34th; it's the first left) and a University of Pennsylvania garage on 34th Street just past Ludlow. Metered street parking may also be available.

The Board of Directors will meet at 4:00 PM in Room 4000, 4th floor of the Vagelos Building, University of Pennsylvania

SPEAKER'S ABSTRACT AND BIOGRAPHY

Dr. Ben Widom

Graduate School Professor of Chemistry and Goldwin Smith Professor of Chemistry Emeritus
Cornell University

A Tale of Three Equations: Thermodynamics and Molecular Correlations



Abstract: The equations of the title relate thermodynamic functions to correlation-function integrals. They are central to much of statistical mechanics. Their meaning and origin are reviewed here. It is known that the integrals are invariant to the choice of the molecules' centers from which one measures the distances between them. This is illustrated with many examples. A case is discussed in which one of the relations appears to be violated. That is impossible and the origin of the discrepancy is still being sought.

Biography: Ben Widom received his AB from Columbia University and in 1953 his PhD from Cornell with S.H. Bauer. He was a Research Associate with O.K. Rice at the University of North Carolina from 1952-1954. Returning to Cornell as an Instructor, he advanced through their professorial ranks and is currently Goldwin Smith Professor of Chemistry Emeritus and Graduate School Professor of Chemistry. Having served on many editorial and advisory boards, currently he is a member of the Editorial Advisory Board, *Physics and Chemistry of Liquids*.

He is a Fellow of the American Physical Society, Member of the National Academy of Sciences, Fellow of the American Academy of Arts and Sciences, Member of the American Philosophical Society and Fellow of the New York Academy of Sciences.

Dr. Widom has received many awards, including the Clark Distinguished Teaching Award from Cornell University, the ACS Langmuir Award in Chemical Physics, the ACS Hildebrand Award in the Theoretical and Experimental Chemistry of Liquids, the Boltzmann Medal, IUPAP Commission on Statistical Physics and the ACS Award in Theoretical Chemistry.

NEWS ATOMS—Alan Warren

DEATHS

Alex Post, 50+year member of ACS, October 2, 2014. No further information available.

Gabriel Saucy, organic chemist, November 8th at 86. Born and educated in Switzerland, he joined Hoffmann-La Roche there in 1954. In 1964 he moved to Roche's facility in New Jersey where he worked on vitamins, steroids and carotenoids. He was named director of process R&D and had over 200 patents and publications. After retiring from Roche in 1985 Saucy served as vice president of R&D for Bio-Mega and then Harbor Branch Oceanographic Institute. He was editor of *Organic Syntheses* and was a 54-year member of ACS.

Edward J. Janoski, retired chemist, November 14th at 97. Following employment at Ugite Corp. and Publicker Industries, he joined Sun Oil Company as a research scientist in 1947. He worked on catalytic conversion of hydrocarbons, plastics, automotive fuels, and the conversion of shale oil into automotive products. He retired from Sun in 1983 and joined Hylunia International as director of medical research.

Joel M. Kauffman, chemistry professor and medical writer, January 5, 2015 at 78. Following employment at the Massachusetts Institute of Technology he joined the faculty of his alma mater, the University of the Sciences in 1979. He retired after 23 years of teaching and working on anticancer drugs, antituberculosis drugs, laser dyes, and the properties of proton-transfer fluors. He served as an expert on automotive chemistry for the National Motorists Association's foundation.

Ellington M. Beavers, retired industry executive, January 26th at 98. He worked for 40 years at Rohm and Haas, retiring as group vice president and director in 1981. He then founded Biocoat, which specialized in coatings for medical devices. He served on the board of trustees of Arcadia University including four years as chairman. The university presents its Ellington Beavers award for intellectual inquiry in his honor.

James Sheldon Voorhees, retired from DuPont, January 30th at 91. His entire career was spent with DuPont's textile fibers department in Virginia, North Carolina, Tennessee, Mexico, and Delaware.

David White, chemistry professor, January 30th. He was past chairman of the department of chemistry at the University of Pennsylvania and a founder of the Laboratory for Research on the Structure of Matter. He received the Philadelphia Section ACS award in 1976.

Paul E. Rusek, Jr., retired manager, January 31st at 74. He was a marketing account manager for DuPont and retired in 2007.

2014 ACS FELLOW DR. KEVIN B. HICKS

Dr. Kevin B. Hicks was elected as an American Chemical Society (ACS) Fellow on the basis of his dedication to science and having served as Chair of the Carbohydrate Division of the ACS. Kevin received a BS in chemistry (1974), MS in agricultural chemistry (1976) and PhD in biochemistry (1979) all from the University of Missouri – Columbia.

Kevin worked at the USDA's Eastern Regional Research Center for 33 years before retiring in 2014. At the time of his retirement he was Research Leader for the Sustainable Biofuels and Co-products Research Unit. Kevin led a team of 35 scientists and engineers conducting research to develop sustainable biofuels and co-products from agricultural commodities, energy crops, crop residues and agricultural byproducts. He is the author of approximately 230 peer-reviewed and technical publications and 10 patents as well as numerous presentations to national and international audiences.

Kevin has won many major awards for his work, including a 2010 Superior Technology Transfer Award from Agricultural Research Service (ARS)/USDA for helping to develop a new advanced biofuel, winter barley ethanol, which led to the construction of a 65 million gallon per year winter barley ethanol production facility in Hopewell, VA, and also a 2007 Fuel Ethanol Industrial Leadership Award from Bryan & Bryan Inc. Other awards include the Scientist of the Year for ARS North Atlantic Area (NAA) (2008), USDA Outstanding Technology Transfer Award (1999), Federal Laboratory Consortium Award for Excellence in Technology Transfer for Corn Fiber (Amazing) Oil Technology (1998), Certificate of Commendation from The Sugar Association, Inc. (1996), Horace S. Isbell Award in Carbohydrate Chemistry from the ACS (1989), and the Arthur S. Fleming Scientific Research Award (1985).

Kevin has served as Chair of the Carbohydrate Division of the ACS. He has also been involved in other professional associations including American Association for Clinical Chemistry (AACC), American Oil Chemists' Society (AOCS), and Ethanol Producers and Consumers (EPAC). He was inducted into the Philadelphia Society for Promoting Agriculture, the oldest agricultural society in the United States, founded in 1785. Kevin has served on the Editorial Board for *Carbohydrate Research* and the Publications Committee for IFT (*Food Technology* and *Journal of Food Science*).

On the ACS website for the 2014 list of ACS Fellows Kevin's contribution to the science profession was stated as: "Recognized for leading successful collaborative R&D activities with corporate, academic, and government partners, resulting in the commercial production of functional foods, feeds, and biochemicals and biofuels from renewable (non-fossil) agricultural feedstocks." A comment about contribution to the ACS community is "Chaired and helped lead the Division of Carbohydrate Chemistry to organizational and programming excellence in the 1980s and 1990s. Organized seven ACS symposia, raised corporate funding, and organized award banquets in notable locations."

The above is a snapshot of why Kevin was chosen as one of the 2014 ACS Fellows.

NOMINATIONS INVITED



FOR THE 2015 PHILADELPHIA SECTION AWARD, AMERICAN CHEMICAL SOCIETY

The Philadelphia Section invites its members and regional and topical groups to consider recommending candidate(s) for the Philadelphia Section Award.

This Award recognizes an individual, “who, by conspicuous scientific achievement through research, has made important contributions to man’s knowledge and thereby aided the public appreciation of the profession.” Any member of the American Chemical Society, Philadelphia Section, may be nominated for this award. Recent awardees include: Feng Gai (University of Pennsylvania), Ahmed Abdel-Magid (Therachem Research Medilab), and Marisa Kozlowski (University of Pennsylvania).

INSTRUCTIONS FOR SUBMITTING NOMINATION

- (1) The nominator should provide detailed biographical data of the nominee, showing educational and employment data, a list of publications and a record of other accomplishments pertinent to consideration for this award.
- (2) One or two seconding letters (at least one of which should be from a person in an organization other than that of the nominee) should be requested in support of the nomination.
- (3) Nominators and seconders should be identified with addresses and telephone numbers so that they can be contacted, if necessary, for additional information.
- (4) Unsuccessful nominees from previous years may be renominated. In fairness to the nominee, however, renominations must be accompanied by an updating of the nominee’s biographical data and list of accomplishments in order to make the nomination competitive. Unsuccessful nominees who have been considered three years in a row should not be renominated for the fourth year in succession without prior consultation by the nominator with the chair of the Awards Committee.

Nomination forms are available from the Section Office. Contact the Administrative Secretary, Mrs. Libby Harper at: Philadelphia Section, ACS, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323; (215) 382-1589; email PhilaACS@aol.com.

The completed packet of nomination materials may be emailed to PhilaACS@aol.com or mailed by **April 1st** to Dr. Rick Ewing, Chair, Awards Committee, at the Section Office address above.

CALL FOR NOMINATIONS



Philadelphia Section, American Chemical Society AWARDS FOR EXCELLENCE IN PRE-COLLEGE TEACHING

The Philadelphia Section of the American Chemical Society will honor two outstanding science teachers from the Delaware Valley with its Awards for Excellence in Pre-College Science Teaching. One award will be given to a full-time educator involved in teaching science in grades K-8. The second award will be given to a full-time educator at the secondary level (grades 9-12) who teaches chemistry. Nominees must teach in the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

Nominations for 2015 will be accepted until Thursday, March 12, 2015. The nomination package should consist of a letter of nomination, the nominee's resume and at least two letters of recommendation. Other supporting information, such as students' comments, is welcome. However, the total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@aol.com or a copy of the nomination materials may be mailed to:

Dr. Rick Ewing
Chair, Awards Committee
Philadelphia Section, ACS
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323

For more information, please contact the Philadelphia Section, ACS office:
phone: (215) 382-1589 or email: PhilaACS@aol.com

Award recipients will be honored at our May 2015 Section meeting with a certificate and an honorarium.

CALL FOR NOMINATIONS



Philadelphia Section, American Chemical Society AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING IN CHEMICAL SCIENCES

The Philadelphia Section of the American Chemical Society will honor an outstanding undergraduate teacher from the Delaware Valley with its Award for Excellence in Undergraduate Teaching in Chemical Sciences. The award will be given to a full-time educator involved in teaching an undergraduate course in the chemical sciences (chemistry, biochemistry). Nominees must teach in an institution that is within the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

Nominations for 2015 will be accepted until Thursday, March 12, 2015. The nomination should consist of a letter of nomination, the nominee's resume and at least two letters of recommendation. Other supporting information, such as students' comments, is welcome. However, the total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@aol.com or the nomination materials may be mailed to:

Dr. Rick Ewing
Chair, Awards Committee
Philadelphia Section, ACS
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323

For more information, please contact the Philadelphia Section, ACS office:
phone: (215) 382-1589 or email: PhilaACS@aol.com

The award recipient will be honored at our May 2015 Section meeting with an honorarium and a plaque.

ASMS TRAVEL AWARD

The Delaware Valley Mass Spectrometry Discussion Group (DVMSDG) is sponsoring two travel awards of \$750 each for students who plan to present at the 63rd American Society for Mass Spectrometry (ASMS) Conference, May 31-June 4, 2015 in St. Louis, MO. Applicants must be enrolled full-time in either a graduate or undergraduate program at a college/university in the greater Philadelphia/Delaware Valley region.

Interested applicants should submit the following information: a copy of their ASMS abstract, 1-2 page supplementary description of their research project, and 1 page curriculum vitae.

Applications should be submitted electronically in Word or PDF format by March 31, 2015 to Dr. Bridgett Steele, DVMSDG Awards Chair, at bridgett.steele@criticalpathservices.com.

Applications will be judged by DVMSDG Board, and the winners will be announced at our annual Vendors' Night meeting on May 11, 2015. Further information about DVMSDG can be found at our website: <http://dvmsdg.org>



Younger Chemists Committee Annual Poster Session

Hosted by the American Chemical Society and the Younger Chemists Committee Philadelphia Section

Tuesday, March 31, 2015 5:30 – 8:30 PM
Athletic Recreation Center, University of the Sciences
Bobby Morgan Arena
897 S. 43rd St., Philadelphia, PA

For more information or to submit an abstract visit www.PhillyYcc.org or contact Renee Harris at rharris1004@gmail.com

Registration Deadline is March 15, 2015



Younger Chemists Committee



CHEMICAL CONSULTANTS NETWORK MARCH 11, 2015 MEETING

An Introduction to OSHA

James B. Harrity

[Click here to register](#)

Date and Time: Wednesday, March 11th, at The Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

Abstract: Description of OSHA (Occupational Safety & Health Administration) mission and procedures, followed by an update that will include the Agency's current initiatives.

Biography: Jim earned a Bachelor of Science degree in Environmental Resource Management with emphasis in Marine Science from the Pennsylvania State University. He began his Federal career at the Philadelphia Naval Shipyard where he completed a Ship Fitter apprenticeship and became a journeyman. Jim moved into the Design Division as a Naval Architect Technician performing design and drafting functions for projects on Naval Combatant Ships. Jim transferred into the Environmental Health and Safety Branch in the Shipyard and served as a Safety and Occupational Specialist supporting the Structural Group and later as an Industrial Hygienist. Jim led many Safety and Health projects while working within the Shipyard to include the sampling and training initiatives for removal of the organic tin coatings on the USS *Kennedy*, which was the first ship of that size to have this coating system removed in a contained drydock.

In 1994 he moved on to the US Army Corps of Engineers serving as the District Industrial Hygienist in the Philadelphia District and later the New York District. Jim supported Superfund Projects, Military Construction and Civil Works Flood Control Projects with Occupational Safety and Health oversight for Government and contractor employees. Jim supported the Public Affairs Officer on numerous responses to include lead concerns from failing coatings on Corps of Engineers bridges over the Chesapeake and Delaware Canal. Jim started with OSHA in 2002 as an Assistant Area Director in the Philadelphia Area Office where he has managed both Safety and Health Compliance Teams. Jim led the group inspection teams performing the area refinery inspections accomplishing the goals of the National Emphasis Program on Petroleum Refining. He was assigned as the Regional Process Safety Manager and continued with enforcement support in the Philadelphia Area OSHA Office. In 2014 Jim was assigned as the Compliance Assistant supporting outreach and compliance assistance efforts in the Philadelphia Area Office and Wilmington Delaware Area Office. He is currently Compliance Assistance Specialist for the Philadelphia and Wilmington Area Offices (OSHA, Region III).

Location: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. From I-76, drive S on City Line Ave. (US Rte. 1). Turn right on Conshohocken State Rd. (Rte. 23); stay in right lane. After second light watch for white left-turn arrows painted on street (about 0.14 mile). Do not follow Rte. 23 left at turn but instead go straight ahead onto Llandrillo Rd. (passing to the right of Valley Press printing). After one block bear left onto Trevor Lane at stop sign. Clubhouse and parking are on the left. Please park in lot if space is available; otherwise park on Trevor Lane. If lost, call the club at 610-667-4524, ext. 312. [MAP](#)

Reservation: [Click here to register to attend the event](#), or e-mail CCNReservations@aol.com or call the ACS office at 215-382-1589 (leave message on voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is \$30 by reservation/cancellation deadline: Saturday, March 7th. Dietary restrictions accommodated on a limited basis. There is no charge for talk only, but registration is suggested using contact information above.

We Need Volunteers



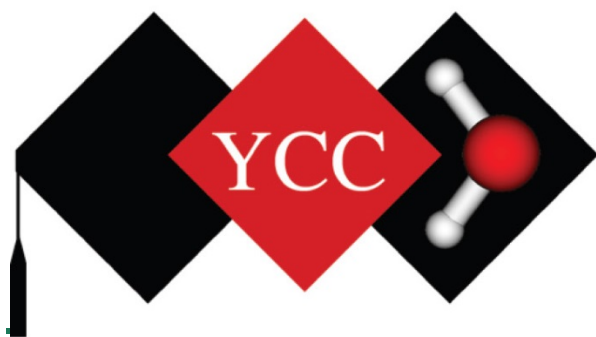
Where: The Franklin Institute

When: May 2nd, 2015 - 9:30 AM to 4:00 PM

What: We will be helping over three hundred children engage in science experiments designed to excite and provoke the mind.

Volunteers are not expected to work the entire time period. Optimally, there will be eight volunteers with four working each half of the event. Please come wearing outdoor weather appropriate clothing you don't mind getting a bit dirty.

If you want to participate, please contact James Brooks at
JBrooks165@gmail.com



March 2015



American Chemical Society

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THE ACS PHILADELPHIA SECTION
presents

The Career Club

With ACS Career Consultant Joe Martino

Tuesday, March 31, 2015

6:00 PM – 9:00 PM

The Community Center
Giant Food Store
315 York Road
Willow Grove, PA 19090

Do these situations apply to you?

- I'm finishing my PhD in organic chemistry, but now I want to become a patent lawyer. How do I go about discussing this with my primary investigator?
- I just lost my job in a corporate restructuring and haven't written a resume in over 15 years. Where do I start?
- I've been working at my company for over 10 years and feel that I deserve a pay raise. How do I negotiate this with my employer?
- I'm a chemist, and my career situation isn't on this list. Who can help me?

Whatever your situation, the ACS Philadelphia Section's Career Services Committee is here to help! ACS Career Consultant Joe Martino will moderate this meeting to allow you to discuss your career concerns so that you may get the most out of your career. Bring your resume or cover letter if you like or just bring only your ideas and questions – all career concerns are fair topics for discussion!

The Career Club is free and open to all chemists, regardless of employment or student status.

For more information and to register for this free service, please visit <http://acsphillycareerclub6.eventbrite.com>

The Community Center is located inside the Giant Food Store in Willow Grove, Pennsylvania. It offers four, quiet conference rooms in an area totally separated from the supermarket. The Community Center is readily accessible from the Pennsylvania Turnpike (I-276), PA 309 and PA 611, and it is a 10 minute walk from the Willow Grove SEPTA Regional Rail Station (Warminster Line).

PLEASE NOTE: You are more than welcome to bring food and drink to the Career Club, but your food and drink must be purchased at this Giant and not brought in from any outside vendors. This Giant Food Store offers a salad bar, a hot bar, pizza, sandwiches and coffee that is available for purchase. It is highly recommended that you purchase any food or drink before the start of the Career Club, as food services at the Giant may close during our meeting.

662nd BOARD OF DIRECTORS' MEETING
Thursday, September 18, 2014
Philadelphia Distilling
Philadelphia, PA

Present: David J. Cichowicz, Judith Cohen Deborah H. Cook, Anne DeMasi, Steven Fleming, Alan R. Heldon, John (J.P.) Northrop, Cynthia Palmer, Kathleen Shaginaw, William Smith, Judy Summers-Gates, James Tarver, Denise Thomas, and Victor Tortorelli.

Excused: Melissa Betz Cichowicz, Christine McInnis and Thomas S. Straub.

Also present: Elisabeth Harper, Joe Martino, and Carol Jean Bruner.

Absent: Ella Davis, Douglas Hausner, and Michelle Johnson.

The 662nd Board Meeting of the Philadelphia Section, ACS, was called to order at 5:05 PM. A quorum was present.

1. Minutes:

The April, May and June Board Meeting Minutes were approved *seriatim*:

April Minutes - on motion with second – Approved with 0 nays or abstentions.

May Minutes - on motion with second – Approved with 0 nays or abstentions

June Minutes – discussion of revealing the name of an award recipient prior to announcement. - on motion with second – Corrected Minutes approved with 0 nays and 2 abstentions.

2. Communications:

Christine McInnis asked to be excused.

3. Committees

A. Career Services, Joe Martino, acsphillycareerservices@gmail.com

Career Services held its most recent meeting of the Career Club on September 16th with ACS Career Consultant Joe Martino moderating. Three people attended the Career Club. Erin Killeen, a scientific recruiter from TechUSA, volunteered her time to attend the meeting and gave a demonstration on LinkedIn searching. The meeting was very well-received by those who have participated. Joe Martino thanks Erin Killeen for her participation at the meeting. The next Career Club meeting will take place on December 2nd from 6 PM to 9 PM at the Community Center at the Giant supermarket in Willow Grove, PA. ACS Career Consultant Lori Spangler will moderate.

Career Services will host a workshop on non-research careers for BS/MS chemists on November 15th from 9AM to 12 Noon at the Howard Gittis Student Center at Temple University in Philadelphia. Joe Martino thanks Steve Fleming for his assistance in reserving the venue at Temple. Five panelists have agreed to participate in the event. A \$10 refundable deposit will be charged to all participants. Joe Martino will be working with Dave Cichowicz to utilize the Eventbrite ticketing system to collect and refund deposits. Publicity for the event will commence once the deposit collection system has been established.

B. Younger Chemists Committee

Christine McInnis's email report was summarized by the Secretary for the Board as follows:

The YCC will hold a workshop on October 7, 2014, called "Speaking Simply." Speaking Simply is on more effective communication, especially describing technical ideas. There will be a webinar from ACS Public Affairs following the workshop, door prizes and discussion topics.

On November 4th the YCC will host a Quizzo event from 7-9 PM at the Landmark Americana Tap and Grill on Market Street in University City.

C. Nominations Committee, J.P. Northrop, john.northrop@anton-parr.com

Rick Ewing has requested that his name be added to the ballot as a candidate for Chair-Elect.

On motion and second, the ballot was approved with 0 nays or abstentions.

4. Officers

A. Chair, Steve Fleming, sfleming@temple.edu

Ocean County Section: it is understood that, at this time, the Philadelphia Section is the only Section interested in merging with the Ocean County Section. The Ocean County Section's membership has approved merging with the Philadelphia Section. The results

were submitted to national for presentation to the Council at the fall meeting in San Francisco. National has since asked the Ocean County members to choose their section individually. The boundary can be reconsidered to accommodate the majority. The Philadelphia Section will reach out to the Ocean County members, invite them to the October and November meetings and send *the Catalyst* to those with email addresses.

Put the YCC October 7th webinar in the October cover note.

James Tarver and Steve Fleming did requested appearances on a local radio show.

Renee Harris will be the National Chemistry Week and Science Carnival coordinator. Anne DeMasi, Deborah Cook and Kathy Shaginaw will assist her.

Henry (Hank) Walens is the Senior Chemist Committee co-chair. The Chemical Consultants Network should be notified and Henry reach out to them. (Carol Jean Bruner is on the national committee.)

B. Chair-Elect, Bill Smith, willsmith2@aol.com.

The Chair-Elect spoke with Solvay Chem. and Solvay is enthusiastic about hosting the Board's January 2015 meeting. They want to see greater industrial participation and support for Section activities.

Awards Committee

The 2015 Ulliot Lecturer is under consideration

The Awards Committee is studying a request from ACS National for award nominees.

Marge Matthews was re-appointed as Communications Committee Chair.

C. Secretary, Alan Heldon, alanheldon@comcast.net.

No report.

D. Treasurer, D. Cichowicz, cichowic@lasalle.edu

Dave noted that there was a software glitch which needs correction but it had no effect on the accuracy of this month's report.

On motion the Treasurer's Report was accepted with no nays or abstentions.

5. Other Business

Tom Straub reported on the dates of the election. Voting will run for two weeks and close November 1, 2014.

The need to address non-electronic ballot distribution and mailing was discussed and it was decided to do the mailing in-house and not to use a mailing service.

The Section has received a second request from a Philadelphia School Teacher looking for supplies. Philadelphia has a local Science In Motion project and it was decided that this and any other teacher be advised to contact the local Science In Motion directly.

Renee Harris, who has been tasked as National Chemistry Week (NCW) coordinator, has requested funding from the Section for a Temple Univ. based event to demonstrate chemistry for neighborhood, pre-university students and residents. The event would be scheduled for the Friday of National Chemistry Week. The sponsors would seek the participation of candy manufacturers in keeping with this year's NCW theme. The request was discussed. It was decided that the Temple Chem Club should email a proposal to the board for review next week, followed by a week of discussion and then the board will vote on the proposal.

Alan Heldon, Chair, Section Government Affairs Committee, reported that he had made a request for a National Chemistry Week proclamation from the Pa. House of Representatives with Rep. Roebuck's office. Further, ACS National had sought the help of Pa. Government and Legislative Affairs Committee (Pa.GALA) Chair Heldon and other Pa.GALA members to obtain a NCW proclamation from the U.S. House of Representatives. Heldon requested Board approval to request NCW proclamations from The Mayor and City Council of Philadelphia. So approved.

Joe Martino was presented with the Section's volunteer of the year award. Richly deserved.

The ACS Maryland Section is celebrating its Centennial on October 17, 2014. Section Board members indicated they planned to attend.

Kathy Shaginaw - AWIS-PHL Networking Event will be at Thomas Jefferson Univ. on September 23rd.

Kathy Shaginaw - For November 8th – PAGES TM needs volunteers.

James Tarver - Saturday, October 18, 2014 ACES at Univ. of Penn. This is the second event, founded by Penn Women in Chemistry; the first was held last July. Student participation is to be encouraged. It is a program for grades 3-9.

There being no additional business before the Board, on motion, the meeting was adjourned at 5:52 PM.

Respectfully submitted,

Alan R. Heldon,
Secretary, alanheldon@comcast.net

665th BOARD OF DIRECTORS' MEETING
Thursday, December 11, 2014
Valley Green Inn, Chestnut Hill, PA

Present: David J. Cichowicz, Deborah H. Cook, Steven Fleming, Alan R. Heldon, Christine McInnis, Cynthia Palmer, Kathleen Shaginaw, William Smith, Thomas S. Straub, Denise Thomas.

Excused: Melissa Betz Cichowicz, Judith Cohen, Ella Davis, Anne DeMasi, Douglas Hausner, Michelle Johnson, John (J.P.) Northrop, Judy Summers-Gates, James Tarver and Victor Tortorelli.

Also present: Elisabeth Harper, Carol Jean Bruner, Joe Martino, Kathie Lysko, Lauren Weinrich (YCC) and Ivona Sasimova (YCC).

The 665th Board Meeting of the Philadelphia Section, ACS, was called to order at 5:40 PM. A quorum was present.

1. Minutes

The November Board Meeting Minutes were approved with 0 nays and 0 abstentions.

2. Note:

As there was neither cell phone service nor internet access to provide remote participation, board members not present are deemed excused. Valley Green Inn is in a steeply sided valley.

3. Committees

A. Career Services, Joe Martino, acsphillycareerservices@gmail.com

Joe Martino reported: The November 15th workshop for Non-Research Careers for BS/MS Level Chemists at Temple University was well received by the four participants who have attended. Joe Martino would like to thank Steve Fleming, Bill Smith and Lori Spangler for their assistance with this event. Career Services has discussed low and poor attendance for workshops targeting student audiences, and is of the opinion that these workshops would be better received if they were presented in a virtual format (i.e., teleconference, Skype, etc.). Career Services will be researching and testing teleconferencing services so that a future career workshop can utilize this technology.

The December 2nd Career Club held at the Community Center of the Giant Super Food Store in Willow Grove, PA and moderated by ACS Career Consultant Lori Spangler was also well received by the two participants who have utilized this service. Career Services is of the opinion that numbers may remain consistently small for this service, which is acceptable. For the purposes of this program, even the presence of only one participant with one-on-one access to the ACS Career Consultant moderator will make this program continue to be worthwhile. The next career club will be in March with Joe Martino moderating.

The committee has been polled about continuing to serve in 2015 and all are continuing. Rick Ewing has joined them.

B. Finance and Budget

Chair Tortorelli could not get through on the phone, but sent a message that if there is no response from a committee, there will be no money in the budget for it in 2015.

We do not have the amount of our allotment from national yet. A final version will be ready in January.

B. Younger Chemists Committee, Christine McInnis, CMcInnis@dow.com

The YCC has started a Leadership development Group with Tom Umile (Gwynedd Mercy University) and three others.

The next YCC event will be a "Program in a Box" on February 24, 2015. It will feature an ACS Webinar on the Chemistry of the Silver Screen. The chemistry of special effects. A final decision on the location would be made soon. Early registration is suggested since the event is limited to 50 people.

3. Officers

A. Chair, Steve Fleming, sfleming@temple.edu

Annual reports are to be emailed to the section office by January 15th. Kathy Shaginaw will send the Forms event form for people's use.

The Board unanimously thanked Steve for his service.

B. Chair-Elect, Bill Smith, willsmith2@aol.com

Bill addressed the need to upgrade the Section's "meeting at a distance capacity" and his intent to move quickly to effect the necessary upgrades.

The January 15, 2015, Board Meeting will be at Solvay in Bristol, PA.

Plan A for the February Board Meeting awaits development, Plan B will have the meeting at Drexel U.

Bill stressed the need for the Section to better utilize Social Media.

C. Secretary, Alan Heldon, alanheldon@comcast.net

The Secretary reported that the components of the new computer system for the Section office were acquired and that the system was running without problem. A few minor items remain to be acquired. The project will finish under budget.

Teleconferencing, web streaming and other applications involving real-time audio-video data streams make greater processing demands than office applications. Portability and ease of use are considerations. One computer will not fulfill both needs well. Meeting teleconferencing equipment should provide good video and excellent audio coverage of the meeting room. The equipment should function invisibly. Once turned on, the equipment should require no further attention during the course of the meeting. We plan to continue using the go-to-meeting service.

D. Treasurer, D. Cichowicz, cichowicz@lasalle.edu

The Section's capital funds are doing well.

All outstanding bills chargeable against the Section must be submitted by December 19, 2014.

The Section received a donation of \$3000.00 from Merck to be spent in 2015.

Funds remaining from the Merck 2014 donation will be used for PAGESTM.

Jim Falcone is currently one of the two members with access to the Section's capital funds. J.P. Northrop will be replacing Jim in that capacity. Jim will continue as a consultant.

There are sufficient funds available in the Section's Awards Fund to cover expenditures and there will be no need to transfer funds.

The Section will be able to conserve principal using only accrued interest.

The treasurer's report was approved with no nays or abstentions.

5. Other Business

The annual gratuities paid to University of Pennsylvania maintenance and support staff were discussed.

With Libby Harper absent from the room, the Section's administrative secretary's remuneration was discussed.

There being no additional business before the Board, on motion, the meeting was adjourned at 6:48 PM.

Respectfully submitted,

Alan R. Heldon, Secretary, alanheldon@comcast.net

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W. Greenlee, V. Gullo and R. Doll –Co-organizers

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PHILADELPHIA SECTION, ACS

2015 CURRENT CALENDAR OF ACTIVITIES

Date	Event	Locations
Wednesday, March 4	AIChE: Continuing Education: Scott Grieco, O'Brien and Gere: Treating Emerging Contaminants – Both Conventional and Advanced Treatment Technologies	Three Tower Bridge, 2 Ash Street Conshohocken, PA http://aiche-philadelphia.org/events/
Thursday, March 5	Delaware Valley Enzymology Club: Dorothea Fiddler, Princeton University: <i>The Inositol Pyrophosphates Provide a Link Between Metabolism and Signaling</i>	Desai Village Restaurant King of Prussia, PA dvenzymec@gmail.com
Monday, March 9	Delaware Valley Mass Spectrometry Discussion Group: Facundo M. Fernández, Georgia Institute of Technology: <i>Forensics, Metabolomics and Molecular Imaging by Mass Spectrometry</i>	Room 115 Mendel Hall Department of Chemistry Villanova University, Villanova, PA http://science.widener.edu/svb/msdg/
Wednesday, March 11	Chemical Consultants Network: James Harrity, OSHA: <i>An Introduction to OSHA</i>	The Cynwyd Club Bala Cynwyd, PA www.chemconsultants.org
Thursday, March 12	Joseph Priestley Society Luncheon: Jeffrey A. Johnson, Villanova University: <i>The Great War and the German Chemical Industry: Origins of the Dual-Use Dilemma</i>	Chemical Heritage Foundation Philadelphia, PA www.chemheritage.org
Thursday, March 19	Edgar Fahs Smith Lecture: Benjamin Widom, Cornell University: <i>A Tale of Three Equations: Thermodynamics and Molecular Correlations</i>	Chemistry Building University of Pennsylvania Philadelphia, PA
Tuesday, March 24	Chromatography Forum of the Delaware Valley: Lucinda Cohen, Merck Research Laboratories: <i>Liquid Chromatography - Mass Spectrometry in the Pharmaceutical Industry: Mid-life Crisis or Golden Years?</i>	Holiday Inn Lansdale 1750 Sumneytown Pike Kulpsville, PA http://www.cfdv.org/meetings/future
Thursday, March 26	Philadelphia Organic Chemists Club: Ryan Shenvi, Scripps Research Institute, LaJolla: <i>Chemical Synthesis of Secondary Metabolites</i>	Chemistry Dept., University of Pennsylvania Philadelphia, PA http://www.pocclub.org/
Tuesday, March 31	Younger Chemists Committee Annual Poster Session	University of the Sciences Philadelphia, PA PhillyYcc.org
Tuesday, March 31	Career Services Committee: Career Club with Joe Martino	Giant Community Center, Willow Grove, PA See notice on page 54
Thursday, April 16	Undergraduate Scholastic Achievement Awards	McCall's Meeting and Conference Center Upper Darby, PA
Saturday, April 18	Philadelphia Girls Enjoying Science Program for Sixth Grade Girls (PAGES™)	Chestnut Hill College Philadelphia, PA www.pagesprogram.org
Thursday, May 21	Philadelphia Section Teaching Awards	TBA
Thursday, June 18	Luncheon Honoring Our Fifty-year Members	TBA

249th ACS Spring National Meeting
March 22-26, 2015
Denver, CO

250th ACS Fall National Meeting
August 16-20, 2015
Boston, MA