

the Catalyst



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February 2010
Volume 95, No. 2



February Speaker
Dr. George M. Preti

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ADVANCE NOTICE

MARCH MEETING

NB: First Thursday, March 4, 2010
Edgar Fahs Smith Memorial Lecture

Dr. Ronald Breslow
Columbia University
at the University of Pennsylvania

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

the Catalyst

ACS Philadelphia Section
Founded April 15, 1899

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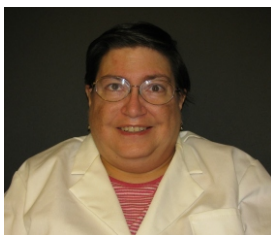
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From The Chair



Judith Summers-Gates

We have hit the February Funk/winter doldrums.... But there are still some ways and means to break up the blahs....

Brave the winter chill and join us with a “significant other” for our February meeting when we will be having a very timely/interesting presentation at the Monell Center by Dr. George M. Preti entitled: “Yes Virginia, There are Human Pheromones (But They Are Not Sex Attractants).” And then join us for a convivial dinner and good conversation afterwards at a nearby restaurant.

February is also “Science Fair Season.” Please consider serving as a judge in our local feeder fairs and investing some time in our bright young people who need our help to start on the road to careers in science. The returns and rewards for you and the students are many. Information and sign up forms for both Carver Science Fairs can be found at this website: <http://www.temple.edu/carver/sciencefair>

I hope to see many of our members there! But if you are not

able to judge, offer your services to local teachers and students as they are preparing the projects. It sometimes takes “a village” to help underprivileged students get the opportunity to experience a science fair project and the accompanying sense of accomplishment.

If science fairs are not something you can engage in, there is another opportunity for you to share your knowledge and talents as a chemical professional - serving as a volunteer reading for Recording for the Blind and Dyslexic (RFBD) that has recording facilities in our area. Readers and proofreaders with technical and mathematical training are desperately needed to record textbooks and other materials for students of all ages and working professionals who have need of RFBD’s services. As a user of RFBD materials myself, I can speak from firsthand experience when I say that the positive impact you have on the borrower’s life is long lasting and that you would be making a real difference for grateful people who you may never get to meet in person. Readers and proofreaders get some free training from RFBD on how to perform the work in a standardized manner and you can set your own schedule of hours and choose the location from which you would like to work. I would

like nothing better than to turn on a new “recording” and hear a familiar voice from one of our Section Members! For more information on RFBD and volunteering, please visit their website: www.rfdb.org

The Section has also been getting numerous requests recently for chemists to perform classroom visits and hands on demonstrations. We owe it to our late and sorely missed colleague, Deb Kilmartin to say “YES” and not turn anyone away. Go out and impress some young people in her honor soon....Contact me or our amazing Mrs. Harper at the Section Office if you are willing to take up the challenge and we will help you identify just the right opportunity....

And speaking of taking up the challenge – THANK YOU to everyone who planned and judged at our January Poster Session and worked so hard to make it such a success – in particular – Dr. Doug Hausner and Temple University!! Kudos on a job well done!

Lastly..... Mark your calendars for March 17th when Dr. Kathy Shaginaw will be having a dynamite (well, not literally!) program for High School Teachers and Students over at Chemical Heritage Foundation. Stay tuned to the Section Website for more details on this NOT TO BE MISSED EVENT!!

NEWS ATOMS

Mark A. Lemmon, professor of biochemistry and biophysics at the University of Pennsylvania, is recipient of the Stanley N. Cohen biomedical research award. The honor recognizes his groundbreaking work in signaling by receptor tyrosine kinases and the role of inositol phospholipids in cellular control. His studies may result in cancer treatment decisions.

DEATHS

Guido John Colucci died June 1, 2009 at 85. He was a 55-year member of ACS.

Roy Donald Uhlman retired chemist September 8, 2009 at 74. He retired from Electro Catalytic in 1999 after 13 years service. Prior to that he worked for Engelhard Industries, Oakite Products, and Celanese. He was active in the ACS, the National Association of Corrosion Engineers, and the American Institute of Chemists where he served as president of the New Jersey Institute of Chemists.

Richard F. Conyne, retired chemist formerly with Rohm and Haas, November 10, 2009 at 90. He joined Rohm and

Haas in 1941 and worked with various plastics in R&D and marketing, retiring in 1979. He then served as a consultant to Johnson & Johnson for five years. He was a 60-year member of ACS.

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

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FEBRUARY MEETING

**THE PHILADELPHIA SECTION,
AMERICAN CHEMICAL SOCIETY**

presents

**Dr. George M. Preti
Monell Chemical Senses Center**

***Yes Virginia, There Are Human Pheromones
(But They Are Not Sex Attractants)***

Thursday, February 18
6:00 PM

Seminar Room
Monell Chemical Senses Center
3500 Market Street
Philadelphia 19104-3308

Light informal dinner before the talk at 5:00 PM
Cost: \$10; Students with reservation and ID \$5

RESERVATIONS should be made by calling Mrs. Libby Harper at the section office, (215) 382-1589, by **5:00 PM on Thursday, February 11**. Cancellations, if necessary, cannot be accepted after **NOON on Tuesday, February 16**. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

PARKING: PARKING is available for \$15 in the University of Pennsylvania garage on 34th Street. Going south past Market Street on 34th, turn left into the garage just past Ludlow Street, before reaching Chestnut. A Drexel University garage is available for \$14 on Ludlow Street; turn left off 34th just before the Penn garage. Metered street parking may also be available.

The Board of Directors will meet at 4:00 PM in the Library of the Chemical Senses Center.

SPEAKER'S ABSTRACT AND BIOGRAPHY

Dr. George M. Preti

Monell Chemical Senses
Center

Yes Virginia, There Are Human Pheromones (But They are Not Sex Attractants)

Abstract: For many in the lay press and public, the word pheromone has taken on one meaning, viz., that of human sexual attractant. However, despite misinformation on the Internet and implications in several peer-reviewed articles, no bioassay-guided research has led researchers to isolate and identify true human pheromones from their natural source. Like cars, food and members of the opposite sex, pheromones come in several varieties, so definitions are important. **Releaser pheromones** elicit a rapid behavioral response, such as sexual attraction, and are the “holy grail” of all internet sales sites. Releaser pheromones have not been rigorously demonstrated in adult humans. However, several studies have shown that extracts of human axillary (underarm) secretions, when applied to female volunteers, appear to alter the length and timing of the menstrual cycle. These effects upon conspecific humans, as well as

the chemistry of axillary odor formation, appear analogous to other non-human mammalian pheromone systems.

Research in our laboratory has identified many axillary odorants. We also have demonstrated specific endocrine and mood alterations in female recipients of male axillary extracts that confirm the presence of primer and modulator pheromones, respectively. **Primer pheromones** typically affect endocrine or neuroendocrine responses while **modulator pheromones** modulate mood or context and have been, thus far, uniquely described for humans. Application of male axillary extract decreases the latency to the next luteinizing hormone (LH) pulse; female recipients also report feeling less tense and more relaxed following application of male extract. These effects can be used as bioassays to guide analytical identification of the active compounds. Axillary extracts may be thought of as a “medicinal tea” containing a complex mixture of organic compounds; within this mixture are the active ingredients whose identity we seek to isolate and identify. Both the nature and biogenesis of axillary odorants, some or all of which

may have pheromonal properties, will be described. The active compounds we seek to identify will provide unique tools to investigate control mechanisms of both the reproductive neuroendocrine system and endogenous pathways mediating an anxiolytic effect in recipients.

Biography: Dr. George Preti received his PhD in Organic Chemistry in 1971 from the Massachusetts Institute of Technology, with a specialty in Organic Mass Spectrometry. That same year he joined the Monell Chemical Senses Center in Philadelphia. The Center, a non-profit research institute, is renowned throughout the world as a leader in multidisciplinary, basic research in olfaction and gustation. Dr. Preti is a Member of Monell and an Adjunct Professor in the Department of Dermatology, School of Medicine at the University of Pennsylvania. For more than three decades, his research has focused upon the nature, origin and functional significance of human odors. His current studies center upon a bioassay-guided approach to the identification of human pheromones, odors diagnostic of human disease, human malodor identification and suppression as well as ex-

amining the “odor-print” of humans.

In addition to having published numerous peer-reviewed papers and reviews, Dr. Preti holds more than a dozen patents related to deodorancy, odor-mediated control of the menstrual cycle and the use of odors in diagnosis. His unique area of research has resulted in hundreds of clinician-directed referrals of patients with idiopathic body and oral malodor production problems. His efforts in this area have revealed a large, undiagnosed population of people suffering from Trimethylaminuria, an odor-producing genetic disorder. In addition his research has resulted in frequent citations and coverage in print and electronic media throughout the world.

His research on human and agricultural odors was featured in the *New York Times Magazine* section on October 15, 2000 (“The War on Stink;” see below) as well as described in a feature article about Monell’s research done by *Chemical and Engineering News* (*C&E News*): January 7, 2002 issue. More recently his laboratory’s research into the volatile organic compounds associated with skin cancer was the subject of arti-

cles in the *Philadelphia Inquirer* (August 21, 2008), *C&E News* (September 22, 2008) as well as electronic and print media around the world. In addition, *C&E News* described his on-going research into human odor signatures on October 12, 2009: “You Stink.”

Several television segments have also described his research into body and oral odors, the most recent being appearances on *CBS Sunday Morning* which discussed his research into human primer and modulator pheromones found within axillary secretions (it was the subject of world-wide press coverage) as well as ABC’s *Primetime-Medical Mysteries* series which featured Dr. Preti and two of the individuals he has diagnosed with Trimethylaminuria, a genetic, odor-producing disorder.

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.

614th BOARD OF DIRECTORS MEETING

Barton Hall, Temple University
October 20, 2009
Philadelphia, PA

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

Present: E. Davis, A. DeMasi, C.J. Bruner, D. Cichowicz, M. Cichowicz, D. Cook, R. Gates, J. Summers-Gates, K. Thrush-Shaginaw, V. Tortorelli, M. Matthews, D. Thomas, W. Smith, T. Straub.

Excused: J. Tierney, R. Ewing, K. Yoder, S. Miller, C. Petucci, T. Dent.

Also Present: L. Harper, C. Martin, J. Crawford.

The meeting was called to order at 4:35 PM per Chair Gates. The minutes for the September meeting were approved as amended.

COMMITTEE REPORTS:

No reports.

OFFICERS' REPORTS:

Chair Gates: No report.

Chair-Elect Summers-Gates: NCW—The Franklin Institute will not be participating. Handouts of Chem Matters are available; materials are also available on the NCW website. The poster entries with all age categories represented
[\(continued on page 29\)](#)

CHEMICAL CONSULTANTS NETWORK

FEBRUARY 10, 2010 MEETING

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

Date & Time: Wednesday, February 10, at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM

Topic and Speaker:

Website Design for Consultants
Steve Klein, Dakota-Diesel, Inc.

Abstract: Main areas covered in this presentation will include: Logo Design, Name Concepting, Copywriting and Illustration with an emphasis on overall Web Design & Development. This presentation will also touch on various related concepts with respect to Flash Animation, Web Banner Design, E-mail Marketing, Search Engine Optimization and E-commerce Design & Development. If time permits, there will be some mention of broader scope items such as open development platforms like Drupal and iPhone.

Biography: **Steve Klein** is the founder and creative director with Dakota-Diesel, Inc., a graphic design and web design studio comprising expert freelance developers and marketing gurus, that specializes in small to mid-sized B2B marketing. Since 2004, their capabilities have grown to include all types of graphic design and marketing services including Logo Design, Name Concepting, Copywriting, Illustration, Print Advertising Design, Web Design, Flash Animation, Ecommerce Design, etc.

Location: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. From I-76 drive South 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 .14 mi/750 ft). Do not follow Rte. 23 left at turn but instead go straight ahead onto Llandrillo Rd. (passing to right of Valley Press printing). In one block bear left onto Trevor Lane at stop sign. Clubhouse and parking are on the left. Please park in lot if space is available; otherwise park on Trevor Lane. If lost, call the club at 610-667-4524, ext. 2. [MAP](#)

Reservation: To make or cancel a dinner reservation, e-mail CCNReservations@aol.com or call the ACS office at 215-382-1589 (leave message on voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is \$25 by the deadline, Thursday, February 4, \$35 afterwards. Late reservations and walk-ins subject to availability. No-shows will be invoiced. Please advise of any special food requirements. There is no charge for talk only; registration is suggested using contact information above.

NOMINATIONS INVITED FOR THE 2010 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: Eric Borguet (Temple University 2009), John J. Baldwin (Vitae Pharmaceuticals 2008), Robert J. Levis (Temple University 2007).

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 nine COMPLETE SETS may be sent by April 1, 2010 to Dr. John Tierney, Chair, Awards Committee, at the section office address above.

(continued from page 26)

will be sent to National by October 30.

Temple has a problem with hosting the January poster session. Other possible venues are Villanova, Drexel and La Salle.

The North Jersey Local Section contacted ACS Career Services to schedule some potential speakers and wanted to know if our Section wanted to collaborate. None of the dates were going to work for us so we dropped the idea for the time being.

We will receive some Earth Day materials from National that we can distribute to our P.A.G.E.S.TM participants in November and at the session in April.

AWIS is planning a one-day career workshop in the fall and the Philadelphia, Trenton and Princeton sections might be able to collaborate with them in this effort. Our webmaster will be asked to contact the NJ sections to find out their level of interest.

Secretary E. Harper for J. Tierney: National forwarded to J. Tierney a request to remove a member from the Section mailing list.

Treasurer C.J. Bruner: The June-August reports were redone.

For August, the budget 2009 numbers are not visible. C.J. to follow up.

Bank charges were so high due to \$15 overdraft protection charge when we did not have required balance in checking account. The overdraft protection program transfers automatically from money market to checking.

June reports Chemical Consultants Network way over budget. Part of the overage is due to an order of stamped envelopes. C.J. will review them for the year.

The cash on hand line is the amount of money in checking account; we are waiting for councilor reimbursement from national.

It was recommended that we take this off-line and a group (D. Cichowicz, C. Martin and V. Tortorelli) will meet with C.J. and George.

D. Cichowicz requested that C.J. provide disbursement sheets at the meeting or prior to if possible.

OTHER BUSINESS:

1. W. Smith inquired about the status of Project SEED. Discussion deferred.

2. V. Tortorelli supplied a report on the Job Search Strategies Workshop held at Ursinus College October 6 with J. Burke as the presenter. It was very successful with 24 attendees. The cost was low, \$288.75. We have 25 books left over and can run the workshop again. The attendees were very engaged. Ursinus is willing to host again. AWIS is running one

on November 14, may follow-up with another session in the spring.

3. December Board meeting needs to be scheduled.

4. Women Chemists Committee (WCC): P.A.G.E.S.TM will be November 21; K. Shaginaw is looking for volunteers. There are two grants to the WCC, one with American Women in Science (AWIS) and the other with the Chemical Heritage Foundation (CHF).

5. A. Heldon and the NSTA received a national mention for their work on science standards. W. Smith put in touch with education standards in chemistry.

There being no other business, the meeting was adjourned at 5:12 PM.

Respectfully submitted,

Anne DeMasi,

Acting as Secretary

615th BOARD OF DIRECTORS MEETING

November 19, 2009

Chemical Heritage Foundation
Philadelphia, PA

Present: C.J. Bruner, D. Cichowicz, D. Cook, E. Davis, A. DeMasi, R. Gates, M. Matthews, S. Miller, W. Smith, T. Straub, J. Summers-Gates, D. Thomas, K. Thrush Shaginaw, J. Tierney, V. Tortorelli, K. Yoder.

Excused: M. Cichowicz, T. Dent, W. Ewing.

Also Present: L. Harper, Sharon Haynie, Alan Heldon, C. Martin, Alan Warren, and Hank Whalen.

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

The meeting was called to order at 4:08 PM per Chair Gates. The minutes for the October meeting were approved.

COMMITTEE REPORTS:

Governmental Affairs (Alan Heldon): Priestley House is now open on weekends and attempting to continue the educational programs instituted when it was state funded. Alan requested a donation pursuant to continuation of the summer education programs, in the sum of \$500. R. Gates asked what is their section (Susquehanna) doing to assist the Priestley House? Heldon responded that their section has donated \$300; a section with 900 members. Anne DeMasi indicated that this was a reasonable request for a worthy cause. The Priestley House is transitioning from state funding to their own revenue source and wishes to continue with educational programs. R. Gates indicated that this would not be a long-term commitment to the Priestley House, and may not happen this year.

Tellers Committee (Tom Straub): Due to the board resignation of C. Petucci, a replacement was needed for one year. Motion

approved unanimously that W. Smith be appointed. A number of alternate councilors will need to be named to replace those elected to newer terms. Motion approved unanimously to accept the Tellers Committee Report.

OFFICERS REPORTS:

Chair Gates: No report.

Chair-Elect Summers-Gates: NCW has now come and gone; it had 160 posters from 11 schools. Local winners have been notified, posters have been forwarded to teachers and certificates of participation have been sent. It was determined that it might be a good idea to limit participation from any one school.

Temple will host the January poster session; D. Hausner will coordinate the event. Need judges and abstract reviewers. More funding is needed for awards; should be the responsibility of the Chair. V. Tortorelli indicated that it was usually an expensive meeting to host and the Section needs to charge admission to all participants to defray costs. The sum of \$20/person and other charge options (participant or bystander) were discussed. It was determined that everyone should be charged the same fee. A charge will be implemented for "no shows."

There are enough Earth Day materials for P.A.G.E.S.TM this fall and in the spring. The spring event will be April 17, 2010.

Secretary (John Tierney): No report.

Treasurer (C.J. Bruner): C. Martin, V. Tortorelli, D. Cichowicz, and G. Cowperthwaite met with C.J. Bruner to resolve problems reported earlier. A check register was printed for the whole year and corrections were made. A copy of the check register and the report were handed out.

C.J. Bruner indicated that the Section has not received reimbursement for councilors expenses. D. Cichowicz and V. Tortorelli brought up discrepancies in the report for the Ullyot Lecture. It appears that the budget is currently \$9,000 underfunded. V. Tortorelli pointed out that in light of the current poor returns on investments, the Section cannot afford to continue spending money in excess of returns. G. Ullyot himself indicated that there should not always be a lecture every year if it meant that money would have to be removed from the principal. E. Davis indicated that we need to obtain funds from National more efficiently. There are still outstanding expenses from E. Davis's term as chair that need to be recovered. C. Martin gave a brief history of her dealings with income from Section investment funds, and further indicated the approach that we should be taking. R. Gates indicated a better job needs to be done to control spending and keep a tighter rein on tracking investments. V. Tortorelli

and C. Martin indicated that the ACS investment committee has a formula for budgeting. C.J. Bruner indicated that she will e-mail a corrected report. C. Martin indicated that the board should be given a PowerPoint presentation to walk people through the budget line by line. It was concluded that this process will be effected by the chair (R. Gates) contacting G. Cowperthwaite.

OTHER BUSINESS:

1. Sharon Haynie advocated that the board go through a strategic planning process, paying particular attention to addressing the budget process.
2. P.A.G.E.S.TM will be this weekend. There are volunteers from the University of Pennsylvania; Debby Loughney from Bristol Myers Squibb CAD group is the speaker. The Chemical Heritage Foundation is donating materials.
3. Marge Matthews indicated that the ACS is changing their web host and we will soon have a new URL; there will be a link from the old address.
4. R. Gates indicated that we should have 3-, 5- and 10-year plans for the Section along with a 3- and 5-year budget plan.

There being no other business, the meeting was adjourned at 5:40 PM.

Respectfully submitted, John Tierney, Secretary

BOOK REVIEW

Biocatalysis and Bioenergy edited by Ching T. Hou and Jei-Fu Shaw. 626 pages, 6¼ by 9½ inches, casebound, John Wiley & Sons, 2008. ISBN 978-0-470-13404-7, \$150 from John Wiley & Sons, Inc., 111 River St., Hoboken NJ 07030.

The book contains a selection of over 30 papers presented at the International Symposium on Biocatalysis and Biotechnology held in Taiwan in December 2006. The focus is on biocatalysis for bioenergy and biofuel applications.

The first part on biodiesel fuels examines their properties, enzymatic reactions for production, optimizing raw material blending, new products from biodiesel glycerin and glycerol, and production of biofuel from lipids. The second part covers aspects of bioethanol such as dry grind ethanol production, gram-positive bacteria as biocatalysts, and the biotechnology of holocellulose-degrading enzymes.

The third part is a more comprehensive study of biocatalysis in making industrial products from renewable resources. Topics discussed in this section include seaweed lipids, conversion of fishery byproducts and waste, bioengineering and application of glucose polymers, biotransformation of oils, biocatalysis-based development of oligosaccharides, production of mannitol by lactic acid bacteria, and biosynthesis of castor oil among others.

The book will be of interest to biochemists and biochemical engineers, bioprocess and bioenergy scientists, oil chemists, microbiologists, and metabolic engineers working in these areas.

—Alan Warren

Delaware Valley Science Fairs

The Delaware Valley Science Fairs will be coming up before you know it. Judges and mentors are always needed. Check the website www.dvssf.org for more information and to volunteer.

ACS Webinars: Your Career Matters!

Curious about the smell of cookies baking? Or how researchers try to isolate vanilla flavor? Know yourself, discover your passion, and weave it into your career! These and much more is what our speaker has combined and built into a successful career. Learn from our speaker how you might also be able to combine your passion in food and chemistry into a career in the exciting world of food and flavor. [Register here!](#)



“Love Food as well as Chemistry? How to Find and Build a Career in the Food and/or Flavor Industries”

A half-hour presentation followed by Q&A with speaker Carolyn Fisher, Regulatory Manager at McCormick. She is also an author, instructor, and food flavors aficionado.

What You Will Learn

Why 'life long learning' as well as understanding yourself is important to defining Career goals. What type of positions chemists have taken in the Food or Flavor Industries. Where to find training in Food Science or Food Regulations. How to develop skills and network for a career in the Food or Flavor Industries. And much more...

Webinar Details

Date: Thursday, February 11, 2010 Time: 2:00-3:00 PM ET Fee: Free [Register here](#)
(<https://www2.gotomeeting.com/register/639896810>)

About The Presenter

Carolyn Fisher received her BS in 1972 from Wayne State University and PhD in 1978 from Stanford University. She was a Research Chemist at Kalsec from 1978 to 1991. At the University of Delaware from 1992 to 1996, she continued her work on the isolation of bioactive components of spices and herbs as well as writing the book *Food Flavours: Biology and Chemistry*. She started at McCormick & Company in 1996 as a Quality Assurance Manager for industrial flavor products and became a Regulatory Manager in 2005. She has developed a training program for regulatory professionals in the U. S. Industrial Group at McCormick, helping her peers grow in their careers. A version of this training course is also being provided through the McCormick Learning and Development Center to non-regulatory professionals. Carolyn is an instructor for the Institute of Food Technologists short course, Labeling Requirements and Implications for Foods Marketed in the U.S.

ACS Webinars now using Twitter

To ask questions to the webinar presenter in advance, or to join group colleagues twittering on the topics, please search or include #acsimp hashtag in your twitter text.



ACS Webinars: Executive View Series

We are all familiar with failures and yet failures carry a negative stigma to both individuals and companies. Just as the phoenix can rise from the ashes, successful individuals and companies are those who have successfully turned failures into advantages. Join us to learn from our speaker the art of calculating risks and taking charge of setbacks. You too can turn failures into success. [Register here!](#)



“Failure is an Option: Learn How to Turn Failure into an Advantage”

A half-hour presentation followed by Q&A with Ben Yerxa, PhD, Executive Vice President & Chief of R&D at Inspire Pharmaceuticals. He trained as a medicinal chemist, served as project leader and other management positions and now focuses on running an R&D organization with a late stage pipeline in ophthalmology and pulmonary medicine.

What You Will Learn

- Why it is important to take risks in science, management and career.
- Taking calculated risks - The science and language of decision making.
- Why the “Fail Fast” doctrine makes sense.
- How to learn from failures - Best practices.
- And much more...

Webinar Details

Date: Thursday, February 18, 2010 Time: 2:00-3:00 pm ET Fee: Free [Register here](#)
(<https://www2.gotomeeting.com/register/328208619>)

About The Presenter

Ben Yerxa, PhD is the Executive Vice President & Chief of R&D at Inspire Pharmaceuticals, where he joined as a medicinal chemist during start up in 1995. He created a unique opportunity for the company to apply its core technology in the field of ophthalmology and is an inventor on more than 50 US patents. He serves on the Board of Directors of the North Carolina Biotechnology Center and Sharefish, and is an Associate Editor of the *Journal of Pharmacology and Experimental Therapeutics*.

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**February Historical Events In Chemistry
by Leopold May
The Catholic University of America
Washington, DC**

- February 5, 1840 John Boyd Dunlop, who developed pneumatic rubber tires, was born on this date.
- February 7, 1850 John B. F. Herreshoff, who developed the method for manufacturing sulfuric acid, was born on this date.
- February 8, 1777 Bernard Courtois who was born on this day, discovered iodine in the liquor from the lixiviation of kelp in 1811.
- February 8, 1866 Moses Gomberg, who synthesized the first stable free radical (triphenylmethyl), was born on this date. He also did research on tautomerism.
- February 11, 1847 Thomas A. Edison was an inventor who invented the incandescent lamp and the mimeograph. He was born on this date.
- February 12, 1785 Two hundred and twenty-five years ago, Pierre L. DuLong was born on this date. He discovered nitrogen trichloride in 1813, and was a researcher on refractive indices and specific heats of gases. In 1819, he and Al  xis Th  r  se Petit discovered the law of constancy of atomic heat and suggested that acids were compounds of hydrogen in 1815. He devised formula for heat value of fuels (DuLong Formula).
- February 14, 1917 Twenty-five years ago in 1985, Herbert A. Hauptman and Jerome Karle shared the Nobel Prize in Chemistry for their outstanding achievements in the development of direct methods for the determination of crystal structures. Herbert A. Hauptman was born on this date.
- February 18, 1745 Alessandro G.A.A. Volta, who was born on this date, invented the voltaic pile, *volta pila*, and observed the bubbling of methane in swamps. He developed a gas lantern that was electrically ignited. The unit of electric potential, the volt, is named in his honor.
- February 20, 1937 Robert Huber, who did research on the three-dimensional structure of proteins involved in photosynthesis, was born on this date. In 1998, he shared the Nobel Prize in Chemistry with Johann Drenth and Hartmut.
- February 24, 1913 William S. Johnson devised new and efficient methods to synthesize complex molecules including corticoid steroids. He was born on this date.
- February 25, 1869 Phoebus A.T. Levene, who was born on this date, was a researcher on the biochemistry of proteins.
- February 26, 1905 William J. Sparks, an innovator and developer in synthetic rubber was born on this date.

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BOOK REVIEW

Bioorganic and Medicinal Chemistry of Fluorine by Jean-Pierre Bégué and Danièle Bonnet-Delpon. 384 pages, 6¼ by 9½ inches, casebound, John Wiley & Sons, 2008. ISBN 978-0-470-27830-7, \$100 from John Wiley & Sons, Inc., 111 River St., Hoboken NJ 07030.

Nearly a century after the Nobel prize was awarded to Henri Moissen for the discovery of fluorine, this book was published in French and has now been translated into English by Julian Legros. The introductory chapter reviews the chemical and physical properties of fluorinated compounds, followed by an overview of the preparation of organo fluorine materials. The introduction of fluorine atoms into a compound affect the biological properties such as absorption and metabolism.

The authors examine fluorinated analogues of natural products as they relate to biological applications and medicinal chemistry, followed by discussion of fluoro peptides, fluoro amino acids, and fluoro carbohydrates. Subsequent chapters deal with inhibition of enzymes by fluorinated compounds and fluorinated drugs used as antibiotics, neuroleptics, anti-inflammatories, and in treatment of bronchial, cardiovascular, and gastrointestinal disorders among others.

An appendix lists international nonproprietary names (INN) and trademarks.

—Alan Warren

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PHILADELPHIA SECTION, ACS 2010 CALENDAR OF EVENTS

Date	Event	Locations
Monday, February 8	Delaware Valley Mass Spectrometry Discussion Group: Kelvin Lee, University of Delaware: <i>Peptide/Protein MS</i>	Villanova University Villanova, PA dennis_murphy@merck.com
Wednesday, February 10	Chemical Consultants Network: Steve Klein, Dakota-Diesel, Inc: <i>Web Design for Consultants</i>	The Cynwyd Club Bala Cynwyd, PA www.chemconsultants.org
Thursday, February 11 2-3 PM	ACS Webinar: Carolyn Fisher, McCormick & Co.: <i>Love Food as Well as Chemistry? How to Find and Build a Career in the Food and/or Flavor Industries</i>	Register at https://www2.gotomeeting.com/register/639896810
February 12-20	Engineers Week Events	http://aiche-philadelphia.org or www.dvewc.org
Thursday, February 18 2-3 PM	ACS Webinar: Ben Yerxa, Inspire Pharmaceuticals: <i>Failure is an Option: Learn How to Turn Failure into an Advantage</i>	Register at https://www2.gotomeeting.com/register/328208619
Thursday, February 18	Dr. George Preti, Monell Chemical Senses Center: <i>Yes Virginia, There Are Human Pheromone,(But They Are Not Sex Attractants)</i>	Monell Chemical Senses Center Philadelphia, PA http://philadelphia.sites.acs.org/
Thursday, February 25	Philadelphia Organic Chemists Club: David Gin, Memorial Sloan-Kettering: <i>Synthesis of Vaccine Adjuvants and Bioactive Alkaloids</i>	University of Pennsylvania Philadelphia, PA http://www.pocclub.org/
Thursday, March 4 NB: First Thursday	Edgar Fahs Smith Lecture: Ronald Breslow, Columbia University	University of Pennsylvania Philadelphia, PA
March 21-25	2010 Spring National Meeting	San Francisco, CA
April 10-13	2010 MARM	Wilmington, DE
Thursday, April 15	Student Awards	TBA
Saturday, April 17	P.A.G.E.S. TM Program for Sixth-grade Girls	Chestnut Hill College Philadelphia, PA
Thursday, May 20	Teaching Awards	TBA
Thursday, June 17	Honoring Our 50-year Members	TBA
August 22-26	2010 Fall National Meeting	Boston, MA