



ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

January/February 2007

Website <http://www.princeton.edu/~pacs/>

Monthly Dinner Meeting

Thursday, January 18, 2007

Our guest speaker will be

**Dr. Adrienne Tymiak, Executive Director of
Bioanalytical and Discovery Analytical
Sciences, Bristol-Myers Squibb**

**"The Modern Pharmer: Analytical
Chemistry, New Technologies and the
Pharmaceutical Machine"**

Time: 6:00 PM
Lecture: Frick Laboratory, Room 120
Dinner: Prospect House (following lecture)

Abstract

Discovering innovative medicines and successfully delivering them to patients is a scientifically complicated, risky and time-consuming process. Pharmaceutical scientists must risk manage a portfolio of research projects while satisfying the costly demands of regulators for more data and the opposing demands of governments and consumers for lower drug prices. It is often claimed that under today's standards for demonstrated efficacy with generous safety margins, common over-the-counter remedies such as aspirin and acetaminophen might ultimately fail to achieve approval as new drugs. Such high stakes and conflicting pressures drive the pharmaceutical industry to adopt new technologies and approaches to enhance efficiency while providing greater sensitivity and more comprehensive characterization of drug candidates. This talk will provide an overview of today's drug discovery and development process and will describe specific examples of how technology advances in mass spectrometry, chromatography, optical spectroscopy and biophysical measurements are being applied during the search for new medicines.

Biography

Adrienne Tymiak is Executive Director of Bioanalytical and Discovery Analytical Sciences at Bristol-Myers Squibb. She received her AB in Biochemistry from

Cornell University, MS in Chemical Oceanography from Florida State University and Ph.D in Organic Chemistry from the University of Illinois Champaign-Urbana, focused on natural product isolation, structure elucidation and biosynthesis. After joining Bristol-Myers Squibb in 1982, she continued research in natural products and then broadened her activities to include computation of chemical diversity, the study of endogenous biomediators, metabonomics, determination of structure and chirality and other applications of analytical technologies and automation in pharmaceutical sciences. She currently leads the analytical department responsible for characterization of lead compounds, development of technologies for biomarker discovery and quantitative measurement of drugs and their metabolites for all preclinical and clinical projects at Bristol-Myers Squibb from early discovery through post-marketing studies.

Reservations

The meeting will be held in room 120, Frick Laboratory, Princeton University (see www.princeton.edu/~pacs for more information). Seminar is at 6 PM followed immediately by dinner at Prospect House. The seminar is free and open to the public. Reservations are required for dinner, which is \$35 for full members, \$25 for retirees and \$15 for students. All reservations will be billed, for the section pays on the number of reservations, not the number of attendees. Please contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu by Thursday, January 11, 2007 to make or cancel reservations.

Monthly Dinner Meeting

Thursday, February 15, 2007

Guest speakers will be

**Dr. Dr. Mark Dewis and Brian Grainger,
International Flavors and Fragrances**

**"Cooling Sensates: Chemistry of TRPM8
Agonists and Their Application in Flavors
and Household Products"**

Time: 6:00 PM
Lecture: Frick Laboratory, room 120
Dinner: Prospect House (following lecture)

Biography, Mark Dewis

Mark graduated with a first class honours degree in chemistry, and went on to obtain a PhD in organic synthesis in 1992. Both degrees were obtained from the University of Nottingham, England. He joined the flavor and fragrance industry as an R&D chemist with Oxford Chemicals Ltd where he progressed to Process Development Manager. In 1998 he joined BBA as Chemical Research Manager in Corporate Technical Europe. Here he was responsible for the chemical synthesis group and worked on identification, registration, commercialization and manufacturing support issues relating to new flavour and fragrance ingredients. Relocating to the USA in 2001 with International Flavors and Fragrance, (IFF), Mark headed up the chemistry team responsible for flavour chemical research. He is currently Head of Global Flavor Research at IFF and is located at the R&D facility in Union Beach, NJ. His role encompasses all areas of flavor ingredient research, product analysis, natural products, taste genomics programs, natural and synthetic chemicals and sensates. Mark is a member of the Royal Society of Chemistry, CSci, CChem, MRSC, the ACS and AChemS.

Biography, Brian Grainger

Brian received his BSc Chemistry University of Sussex. He has extensive experience in the flavor industry and enjoys both flavor research and flavor creation. He was Senior Flavorist at PFW division of Hercules Inc. from 1978 to 1989, first in England and then in the United States. He is currently Vice President, Flavor Creation, International Flavors and Fragrances North America. He was previously Senior Research Flavorist there from 1997 to 2002.

Reservations

The meeting will be held in room 120, Frick Laboratory, Princeton University (see www.princeton.edu/~pacs for more information.) Seminar is at 6 PM followed immediately by dinner at Prospect House. The seminar is free and open to the public. Reservations are required for dinner, which is \$35 for full members, \$25 for retirees and \$15 for students. All reservations will be billed, for the section pays on the number of reservations, not the number of attendees. Please contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu by Thursday, February 8, 2007 to make or cancel reservations.

Section Establishes Government Affairs Committee

As scientists, laws on R&D funding, math and science education, environmental regulations, homeland security, and much more, have a profound impact our personal and professional lives. Many argue that laws associated with innovation and technology are weak on scientific fundamentals. This is understandable, given that very few elected officials (or their staff) have scientific backgrounds, and too few scientists and engineers have made a significant effort to share scientific knowledge with them. However, elected officials respond to their constituents more than anyone else, so ACS members can clearly make a difference if they are willing to establish a dialog with, and provide technical information to, their elected officials.

The ACS Legislative Action Network (LAN) is a web-based communication group that enables ACS members to conveniently and effectively express their opinions on various issues to their respective legislators. In 2006, LAN members sent over 11,000 letters to the President and members of Congress on issues such as science and math education and R&D funding. If you haven't already done so, sign up for the LAN, and let your voice be heard by policy makers. Members of Congress do listen to their constituents, and you can make a difference. Register online at <http://www.congressweb.com/signupform/acs>.

In addition, the Princeton Section has established a Local Section Government Affairs Committee, chaired by Lynne Greenblatt. The goal of this committee is to identify policy issues that are important to the Section membership, and establish a relationship with local and federal policy makers for the purpose of providing technical guidance relative to these issues. We are soliciting ideas for issues on which to focus, as well as people with the expertise to address them. The ACS has several Policy Statements that are approved by the ACS Board of Directors. These include statements on issues such as innovation, science funding, education, workforce, environment, and security. If you have interest in any of these issues, and would like to get involved in working with legislators, please contact Lynne at greenbl1@wyeth.com.

PACS ELECTION RESULTS ANNOUNCED

The ballots have been received and tallied and we are pleased to report the results. Our chair-elect for 2007 is Dr. Andrew Bocarsly. He has been active in the Princeton Section for many years. He served as Secretary-Treasurer in 1992, Chair in 1994 and currently is Chair of the Education Committee. Sharon Sibilias has been re-elected as Secretary / Treasurer. Our complete, updated slate of officers and committee chairs is as follows:

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2007 EXECUTIVE OFFICERS and COMMITTEE CHAIRS

Chair:

George Crull
Bristol-Myers Squibb
(609) 252-5805
george.crull@bms.com

Chair-Elect:

Andrew Bocarsly
Princeton University
(609) 258-3888
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Past-Chair:

Istvan Pelczer
Princeton University
(609) 258-2342
ipelczer@princeton.edu

Secretary / Treasurer:

Sharon Sibilias
(609) 520-1288
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Councilor:

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Councilor:

Barbara Lences
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Alt. Councilor :

Kathryn Wagner
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Chemagination:

Louise Lawter & Sharon Sibilias
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Newsletter & Public Relations:

Louise Lawter
louise.lawter@gmail.com

National Chemistry Week:

Kathryn Wagner
kmwagner@princeton.edu

Outreach:

Bill Barnard
Zev4US@yahoo.com

Awards:

Louise Lawter
louise.lawter@gmail.com

Board Meeting Schedule:

The Executive Committee of the Princeton Section has scheduled its first two meetings of the year. They will meet on Friday, January 19, 2007 and Friday, April 20, 2007 at Wyeth Research, Monmouth Junction, NJ from 11:30 AM to 1:30PM. The meetings are open to all the membership. If you would like to attend, please contact Lynne Greenblatt at greenbl1@wyeth.com to be added to the list of attendees. Also, if you are interested in helping out on any committee or would like to know more about the program, please contact the committee chair listed above. They would like to hear from you!

Local Sections Will Sponsor 2007 Outstanding High School Chemistry Teacher Award

The Princeton and Trenton sections of the American Chemical Society (ACS) will once again be jointly sponsoring the Outstanding High School Chemistry Teacher Award. The purpose of this award is to recognize, encourage, and stimulate teachers of high school chemistry. Two outstanding teachers will be selected by the sections. These local winners will be eligible for the MARM Regional High School Teacher Award, to be presented at the ACS Mid-Atlantic Regional Meeting (MARM 2007) May 16-18, 2007 in Collegeville, PA. (<http://marmacs.org/>).

Do you know a great chemistry teacher? We would love to hear from you! Nominations are now being accepted. Further information about the contest and application forms can be obtained from the website www.princeton.edu/~pacs/, or by sending an email to louise.lawter@gmail.com. You may also call Denise D'Auria at 609-258-5202. The application form, including a recommendation of not more than 1,000 words evaluating the nominee's accomplishments, must be submitted to Louise Lawter, Program Chair. It can be mailed to: Princeton ACS, Department of Chemistry, Princeton University, Princeton, NJ 08544-1009, attention: Louise Lawter or emailed to louise.lawter@gmail.com. Submissions must be received prior to February 26, 2007.



“Snow Day” at the Princeton Library:

On Thursday, December 28 Bill Barnard, assisted by another PACS volunteer, Louise Lawter, conducted two chemistry demonstrations to full houses at the Princeton Library. The audience gave their full attention to watching how liquid nitrogen can transform a banana into a hammer and lettuce into chips in a flash! They learned some other useful facts about nitrogen and other gases as well.



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