



# ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

January/February 2009

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

## Monthly Dinner Meeting

**Tuesday, January 13, 2009**

*Our guest speaker will be*

**DR. DAVID JACOBUS**  
**Jacobus Pharmaceuticals**

### "An NCE for the Treatment of Malaria and Tuberculosis"

**Time: 6:00 PM**

**Lecture: Bowen Auditorium, Room 222**

**Dinner: Bowen Atrium (following lecture)**

#### Abstract

The Jacobus Pharmaceutical Company has a new antimalarial DHFR antagonist in pre-clinical development targeted for Phase 1 in Australia in the summer of 2009. We will present structure activity data against a standard mouse strain, and effectiveness against quad resistant *P. falciparum*, and *P. vivax*. We have some crystallographic data to show orientation in plasmodial and TB receptors.

#### Biography

Dr. Jacobus has been active in the medical and pharmaceutical areas for close to 50 years. He founded Jacobus Pharmaceutical which concentrates on the development of orphan drugs and treatments for malaria and drug resistant tuberculosis.

#### Reservations

The meeting will be held in Bowen Auditorium, room 222, Princeton University. The seminar is at 6 PM followed immediately by dinner in Bowen Atrium, Princeton University. Bowen Hall is located on Prospect Street, between Olden St. and Fitzrandolph St. (see [princeton.edu](http://princeton.edu) for map). The seminar is free and open to the public. Reservations are required for dinner, which is \$20 for members

and \$10 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 [denised@princeton.edu](mailto:denised@princeton.edu) or (609) 258-5202 or by Wednesday, January 7 to make or cancel reservations.



## Monthly Dinner Meeting

**Tuesday, February 10, 2009**

*Our guest speaker will be*

**DR. DAPHNA HAVKIN-FRENKEL**  
**Bakto Flavors LLC and Rutgers University**

### "Vanilla - the Food of the Gods"

**Time: 6:00 PM**

**Lecture: Friend Center Auditorium**

**Dinner: Friend Center Convocation Room  
(following lecture)**

#### Abstract

Vanilla is the most known flavor and is widely used in the food and confectionery industries. Vanilla (*Vanilla planifolia*, Andrew), is a member of the orchid family that originated in Mexico and became known in Europe following Cortez's conquest of the Aztec kingdom in 1519. US annual imports for 2007 was around 2200 tons. Vanilla has captured the imagination of many people for generations, including people involved in its farming and curing, as well as flavorists and food technologists. The love for vanilla flavor and aroma has challenged chemists to try and synthesize the major components in vanilla. Some synthetic chemical combinations do resemble vanilla, but nothing comes close to real vanilla, which contains around 350 individual components in a unique and specific ratio, chief among them being vanillin.

Vanilla flavor is extracted mainly from the cured beans of *Vanilla planifolia*, Andrew. Another species, *Vanilla tahitensis*, Moore, grown exclusively in Tahiti and Papua New Guinea is also a source of vanilla flavor. Beans (pod-like fruit) are produced after 4-5 years of cultivation. Fruit maturation occurs 8-10 months after pollination. A characteristic vanilla flavor and aroma develops in the fruit after a process called "curing", lasting an additional 3-6 months. Vanilla species, growing conditions, nutrition, climate conditions, maturity of the beans, harvest time, curing methods and extraction conditions are some of the parameters affecting the quality of cured vanilla beans and vanilla extract.

### Biography

Dr. Daphna Havkin-Frenkel holds a BS and an MS in the area of Agriculture from Hebrew University, Jerusalem and a PhD in Food science and an MBA from Rutgers University. Dr Havkin-Frenkel has 20 years experience in the area of flavors, mainly vanilla. She has published extensively in the area of vanilla biotechnology, and has been invited to worldwide symposiums as a speaker on the subject. Daphna organizes an annual International Vanilla Meeting, starting with the First International Congress on Vanilla, Princeton, NJ, 2003. Daphna also conducts courses on Vanilla/Vanillin and other subject related to natural products at Rutgers University. She divides her time between research and teaching at Rutgers University and product development in Bakto Flavors LLC.

### Reservations

The meeting will be held in the Friend Center Auditorium, (1<sup>st</sup> floor) Princeton University. The seminar is at 6 PM followed immediately by dinner in the Friend Center Convocation Room. The Friend Center is located on the corner of William Street and Olden Street. (see [princeton.edu](http://princeton.edu) for map). The seminar is free and open to the public. Reservations are required for dinner, which is \$20 for members and \$10 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 [denised@princeton.edu](mailto:denised@princeton.edu) or (609) 258-5202 or by Wednesday, February 4 to make or cancel reservations.



## National Chemistry Week Activities Night 2008

By Kitty Wagner, NCW Chair

About 500 guests "Had a Ball with Chemistry" at the Princeton NCW "Chemistry in Sports" Activities Night, October 24, 2008, in the Carl A. Fields Center at Princeton University. Most of the guests were children ages 6-17 from local schools and scout troops. The rest were parents and teachers. Guests had the opportunity to learn about new materials that contribute to safety and performance in cycling, tennis, golf, baseball, swimming, skiing, and other sports. They learned about evaporative cooling. They made bouncing balls and instant snow. They investigated bounce. They saw the insides of shoes and balls for different sports and got the inside story on the materials they saw, autopsied a dead baseball bat, and investigated LEDs used in bike lights and LCDs used in timers and displays. Jay's Cycles provided cycling equipment, and Princeton University coaching staff and ACS volunteers provided other sports equipment and materials. Special thanks to Carol Lee for providing golf equipment and a putting green, to Will Rogers for cycling equipment, to Allan Puchalski and Klaus Wagner for rackets and balls, and to Chris Bergstrom for sharing ski equipment.

Many thanks to the wonderful volunteers that made it all possible: ACS members, Allan Puchalski, Bill Barnard, Carol Lee (and her intrepid Princeton High School AP students), John Gregg, Klaus Wagner, Louise Lawter, Molly Hoke, Schuyler Antane, Thomas Caggiano, and Will Rogers; Princeton University staff Ginny Sari and her friend Harry; Princeton University grad students Emily Cole, Chris Bergstrom (and friend), and Julia Kalow; and Princeton undergrads Karolina Brook, Peter Wei, Derek Edwards, Nam Giang, Rachel Yu, and Sofia Ismailov. Thanks also to the students and ACS member Jonathan Chun who got the video presentation started. Apologies to anyone who contributed time and expertise and whose name does not appear on this list. Special thanks to Louise for manning the door, minding the goggles, and taking pictures (daunting tasks, indeed!), to Ginny for serving as a runner, to Carol and Will for gathering equipment, and to everyone who came early to set up or stayed late to clean!

## National Chemistry Week Picture Gallery



<b>Princeton Section of the ACS</b> <b>2009 Executive Officers &amp; Committee Chairs</b>		
<b>Chair:</b> David Carrick dcarrick@comcast.net	<b>Chair-Elect:</b> Kathryn Wagner Princeton University (609) 258-2937 kmwagner@princeton.edu	<b>Past-Chair:</b> Andrew Bocarsly Princeton University (609) 258-3888 bocarsly@princeton.edu
<b>Secretary / Treasurer:</b> Sharon Sibia (609) 520-1288 sas@taytech.com	<b>Councilor (2009-11):</b> Lynne Greenblatt Wyeth Research (732) 274-4549 greenbl1@wyeth.com	<b>Councilor (2008-10):</b> Louise Lawter louise.lawter@gmail.com
<b>Webmaster:</b> Jonathan Chun Alliance Technologies, LLC (732) 355-1234 jchun@alliancetechgroup.com	<b>Alt. Councilor (2009-11) :</b> Schuyler Antane Wyeth Research antanes@wyeth.com	<b>Alt. Councilor (2008-10):</b> Bill Barnard Zev4US@yahoo.com
<b>National Chemistry Week :</b> Kathryn Wagner Princeton University (609) 258-2937 kmwagner@princeton.edu	<b>Government Affairs:</b> Lynne Greenblatt Wyeth Research (732) 274-4549 greenbl1@wyeth.com	<b>Newsletter &amp; Public Relations:</b> louise.lawter@gmail.com
<b>Chemagination:</b> Louise Lawter & Sharon Sibia chemagination@yahoo.com	<b>Outreach:</b> Bill Barnard Zev4US@yahoo.com	<b>Earth Day:</b> Schuyler Antane Wyeth Research antanes@wyeth.com



### PACS Election Results

Thanksto all of you who returned your 2009 local section ballots. Results of the election are as follows:

Kathryn "Kitty" Wagner is the 2009 Chair-Elect,

Lynne Greenblatt is Councilor, 2009-1011,

Schuyler Antane is Alternate Councilor, 2009-1011,

Sharon Sibia was re-elected Secretary/Treasurer.

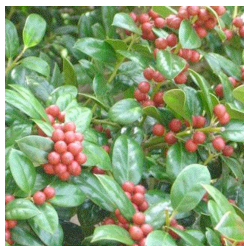
### 2009 Registration for ACS Short Courses in Woodbridge, NJ is now open.

Registration has opened for the ACS Short Course Circuits in Woodbridge, NJ February 9-13, 2009. Course scheduled to be offered include:

- Recent Developments in Organic Synthesis – February 9-10
- Practical HPLC in Pharmaceutical Analysis – February 9
- Analytical Method Transfer of Pharmaceutical Products – February 10
- Introduction to Process Analytical Chemistry – February 9-10
- Pharmacokinetics and Pharmacodynamics: Principles and Applications in Pre-Clinical Drug Development – February 9-10
- Statistical Analysis of Laboratory Data – February 9-11
- Effective Supervision of Scientists and the Technical Staff – February 11-12
- Chemical Engineering for Chemists – February 11-12
- Laboratory Safety & Health – February 11-13
- Analysis and Interpretation of Mass Spectral Data – February 12-13
- Drug-Like Properties in Drug Discovery – February 12-13

Visit our website at [www.acs.org/shortcourses](http://www.acs.org/shortcourses) for more information.





*Happy Holidays*

*from the*

*The Executive Team of the Princeton Section of the ACS*



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