



# ALI "QUOTES"

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## Joint Dinner Meeting

Princeton ACS Section *and the*  
Central Jersey – Assn. of Women in Science (AWIS-CJC)\*

Wednesday, March 10, 2010

## "Exploring Careers in Chemistry"

Time: Lecture 6:00 PM; dinner following  
Presentation: Frick Laboratory, Room 120 Princeton Univ.  
Dinner: Frick Laboratory Foyer

### Abstract

Our panel of speakers will describe how their chemistry or related degrees informed their career paths.

### Panel Members

**Carol Lee, PhD** - Chemistry Teacher, Princeton High School

In 1978, with a PhD in organic chemistry from Cornell, Carol Lee began working for Mobil Oil in the short-lived agricultural chemicals division. She enjoyed a wide variety of jobs in research, manufacturing, and marketing before retiring from Mobil in 1999, when Mobil and Exxon merged. With only a little experience as a substitute teacher and one course on teaching high school science at TCNJ, she began teaching at Princeton High School in 2000, and secured her teaching certificate through NJ's Alternate Route program. Carol currently teaches AP Chemistry and Chemistry in Context, a course for "mathaphobes" at Princeton High School.

**Ned Haubein, PhD** - Senior Scientist, The BioAnalytics Group

Dr. Haubein, has been instrumental in developing The BioAnalytics Group's image analysis applications and its BioPathwise™ software product. The software and consulting system offers an innovative graphical user interface for integrating biological pathways with complex datasets for biological researchers, clinical developers, and drug safety analysts. A chemical engineer with a Bachelor's degree from the University of Delaware and a PhD from Northwestern University, Dr. Haubein has worked in the forefront of modeling development throughout his career. During his tenure at Physiome Sciences in Princeton, NJ, he leveraged his leadership skills working with software developers, the bioinformatics team, and management. After two years as

the chief scientist at BIOSoftware Systems in Camden, NJ, where he was responsible for setting up initial company operations, he joined The BioAnalytics Group and is now part of the senior management team.

**Sharon Ma, PhD** - Patent Manager, Johnson & Johnson

Sharon Ma began her professional career, as a post-doctoral associate, in drug discovery R&D at Novartis Corporation, conducting structure-function study of proteins. She then took some time off from active chemistry research to raise two boys, now age 17 and 14, while staying connected with the professional world by conducting academic research at Princeton University, and of course, being a ACS member. In 1999, Sharon reactivated her full time career as a patent scientist at Ethicon, a Johnson & Johnson company. She is now a patent manager at Johnson & Johnson Group of Consumer Companies, Inc.

Sharon holds a B.S. degree in Chemistry from Peking University, China, a PhD in Physical Organic Chemistry from Arizona State University, and is registered and licensed with the United State Patent and Trademark Office. She has enjoyed a variety of careers in chemistry.

#### **Reservations**

The meeting will be held at 6:00 pm in Frick Laboratory, Room 120 (Kresge Auditorium) Princeton University. Dinner will follow in the Frick Laboratory Foyer. Frick is located on the corner of Washington Rd. and William St. (see [princeton.edu](http://princeton.edu) for map). Use the front, right side door after 6:00 pm as the main door is locked. 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. Please contact Denise D'Auria at [denised@princeton.edu](mailto:denised@princeton.edu) or (609) 258-5202 or by March 4 to make or cancel reservations.

\*AWIS-CJC is the local chapter of the Association for Women in Science, a national organization dedicated to supporting scientists through networking, educational and entrepreneurial opportunities. [www.awis-cjc.org](http://www.awis-cjc.org), [awis\\_cjc@yahoo.com](mailto:awis_cjc@yahoo.com)



## **Joint Meeting Princeton & Trenton ACS Sections**

**Thursday, April 8, 2010**

*our guest speaker will be*

**Nicholi Vorsa, PhD**

**Department of Plant Biology and Pathology,  
Rutgers University**

### **"Cranberry Polyphenols and their Potential Benefit to Human Health: Cranberry Flavonoid Bioactivities and Bioavailability"**

6:00 PM, Rider University,  
Fireside Lounge, Bart Ludeke Student Center

#### **Abstract**

Cranberry flavonoids have been associated with a number of beneficial health effects. Cranberry consumption is reputed to be protective against urinary tract infections and cardiovascular diseases. Other benefits include activity against dental caries, as anticancer and anti-inflammatory activities. Since the 1800's, cranberry consumption has been recommended as a remedy for urinary tract infection or dysuria. In vitro, cranberry A-type proanthocyanidins interfere with the adhesion of the principal pathogen in urinary infection, uropathogenic P-fimbriated E. coli bacteria. The inhibition of bacterial adherence by cranberry proanthocyanidins is currently thought to be the principal mechanism for urinary tract health. Cranberry is uniquely rich in a number of flavonoid classes including the mentioned proanthocyanidins, as well as flavonols and anthocyanins. All three classes are thought contribute to the very high anti-oxidant potential of cranberry relative to other fruit crops. The consumption of cranberry products have exhibited positive effects in vivo. However, the bioavailability, metabolism, tissue distribution and excretion of the various cranberry flavonoid compounds in vivo are little understood. A fuller understanding of the benefits of cranberry for human health will require elucidation of their absorption characteristics, metabolism, sites of activity and excretion.

#### **Biography**

Professor Nicholi Vorsa received an MS in Plant Breeding and Genetics in 1978 from University of Wisconsin-Madison, and a PhD from Rutgers University in 1984. He joined the Rutgers faculty in 1985 and is currently Professor in the Department of Plant Biology and Pathology. He is Director of the Rutgers University PE Marucci Center of Blueberry and

Cranberry Research and Extension, Chatsworth, NJ. His research identified A-type proanthocyanidins in cranberry that inhibit the adhesion of uropathogenic P-fimbriated E. coli to Gal( $\alpha$ 1-4) Gal $\beta$  moieties of human erythrocyte membrane glycolipids. In collaboration with other laboratories additional bioactivities of cranberry components have been identified including cytotoxicity to and increasing the sensitivity of platinum drug resistant ovarian cancer cell lines to platinum drugs, inhibitory effects against S. mutans involved with dental caries, and anti-inflammatory activities. The bioavailability and metabolism of cranberry flavonoids in vivo are the current area of focus. His research efforts also include the breeding and genetics of blueberry and cranberry with particular focus on the genetic manipulation of cranberry flavonoids and other fruit chemistry traits. He has published over 90 scientific papers and six patents. His research has been funded by the NJ Commission of Science and Technology, NIH, USDA, DOD as well as industry.

#### **Reservations:**

Dinner buffet is \$20. Reservations are required for dinner only; all are welcome to come for the presentation. Please contact Denise D'Auria at [denised@princeton.edu](mailto:denised@princeton.edu) or (609) 258-5202, or Dr. William McCarroll at [mccarroll@Rider.edu](mailto:mccarroll@Rider.edu) or 609-896-0392 by April 1 to make or cancel reservations.

#### **Directions to Rider University:**

From Route 1 take I-95 South (I-295 North) to exit 7A. Follow Route 206 South for 1/4 mile. Pass the main entrance and enter through the South Entrance. Go through the guard gate and park in the lot on your right. See (<http://www.rider.edu>) for map.



### **HAVE YOU ATTENDED AN ACS WEBINAR LATELY?**

ACS Webinars is a weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in chemical sciences, management, and business. The ACS Webinars are divided into several series that address topics of interest to the chemical and scientific community; these series include career development, professional growth, small & medium business, green chemistry, and executive view. Each webinar is 60 minutes in length, comprising a short presentation followed by Q&A with the speaker. The live webinars are held on Thursdays from 2:00-3:00 pm and recordings of the past webinars are available. See

[http://boilthisdown.org/?page\\_id=385](http://boilthisdown.org/?page_id=385) for upcoming events or <https://www2.gotomeeting.com>

#### Webinars for March

**March 4, 2010:** *Online Monitoring for Water and Wastewater Processes – Global Sustainability at Your Fingertips.* Do you know that the global market for water treatment products is a \$44 Billion industry? Join us with our speaker Ed Askew, of Askew Scientific Consulting, to explore the latest trends in technology and learn best practices for online water monitoring.

**March 11, 2010:** *Developing Career Skills to Compete in a Global Economy – Observations of AMRI Operations in India, Singapore, Hungary and the United States.* Do you know how your skills compare to scientists from other countries? Would you like to learn how to stay competitive in the integrated global economy? Our speaker Michael Trova, Senior VP of Chemistry at Albany Molecular Research Inc., will share his observations of R&D operations in various countries. Join us to learn how you can develop your career skills and be competitive in this global era.

**March 18, 2010:** *Staying Ahead of the Game: Recent Innovations in Computational Methods for Drug Discovery.* Looking for new ideas in your research projects? Want to know if computational methods can help? Knowing when to use a certain tool in your research is as crucial as deciding whether you should use it. Advances in computational methods have greatly sped up drug discovery, but it is not without its setbacks. Our speaker Woody Sherman, Vice President of Applications Science at Schrödinger Inc., will discuss the successes of computational modeling and how to benefit from failures and avoid costly mistakes. Join us as we probe the secrets of when to deploy computational methods and how to get the innovations you want.

**March 25, 2010,:** *How to Grow Your Small Business into a Large Corporation – The Story of SAIC and the Secret Sauce of Employee Ownership.* Join us with Martin Staubus, Director of Consulting at the Beyster Institute, to learn how small and medium sized companies, and their employees, can create a system of employee ownership that is tailored expressly for their individual needs. We will also learn how SAIC has used the employee-owned model to grow from a small technology company into an \$8B powerhouse.



## Job Seekers: Don't Go It Alone.

Whether you're looking for your first job or seeking to advance or transition in your career, the resources of ACS Careers (look under [acs.org/careers](http://acs.org/careers)) will give you a competitive advantage in your job search. ACS Careers offers members like you invaluable resources, from one-on-one career consulting and mentoring, to webinars to hone your job search skills, to the leading online job search resource for chemists and scientists at all levels of experience and education.

You can also energize your job search by creating or joining a local job club, in which you meet regularly with other job seekers in your area to share strategies and provide group support. Many job clubs are formed under the auspices of the ACS Local Section in the area. The ACS Careers webinar forums can serve as useful discussion starters for your club's meetings. You can find other job search strategies and discussion materials on the ACS Careers Job Search Essentials web page



The 41st Middle Atlantic Regional Meeting (MARM 2010) of the American Chemical Society will be held from Saturday, April 10 to Tuesday, April 13, 2010. Hosted by

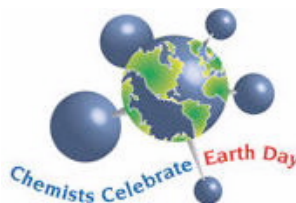
the Delaware Local Section, the meeting will take place at the historic Hotel du Pont in Wilmington, Delaware. Many exciting and informative symposia and events are being planned.

Visit the website at: [www.marmacs.org](http://www.marmacs.org)



## Section Plans for Earth Day

by Schuyler Antane, CCED Coordinator



This year's Chemists Celebrate Earth Day (CCED) theme is "Plants - The Green Machines!" Where is the chemistry in plants? What does the plant, or green machine

do to energize the planet? What chemicals do the green machines produce, and how do those chemicals "clean the planet?"

**Everyone** is invited to celebrate earth day in a unifying way with chemists. There are many ways to do this (aside from hugging a chemist on April 22). One way is to simply identify a local plant (a list can be found here <http://www.drgreenway.org/nursery/sales.html>) and take a community pledge with your chosen "green machine." Please sign and submit your pledge online by earth day using the form provided at this link <http://fs12.formsite.com/ACS-OCA/form873210338/index.html>.

You are also encouraged to tell us what your "green machine" does to energize, produce, and clean the planet. Send this information to local CCED Coordinator by June 26, 2010. Selected entries may be chosen for display on our local section website. In addition this section will be conducting a number of contests or other activities for students. For example:

**K-12 Students** have an opportunity to participate in an Illustrated Poem Contest. Please write and illustrate your poem using the CCED 2010 theme, "Plants: The Green Machines!" Detailed rules and guidelines are published at the Chemists Celebrate Earth Day website ([www.acs.org/earthday](http://www.acs.org/earthday)). Please submit poems of 40 words or less of any style to local CCED Coordinator.

**College students** may participate in a contest to produce an activity for elementary school students to illustrate the CCED 2012 theme about recycling. If interested do not delay - contact local CCED Coordinator for a copy of rules and deadlines.

If you have any questions about the activities or would like to help out with our CCED celebration please contact Schuyler Antane, CCED Coordinator at [antanes@verizon.net](mailto:antanes@verizon.net).



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<b>Wednesday, March 10</b>	<b>Chemical Consultants Network</b> <p>Topic: "Databasing and Contact Management Systems for Consultants". Speaker Anne Toohey, owner and primary consultant at DataBasics Solutions since 200. Location: Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA. Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM. To make or cancel a dinner reservation, e-mail <a href="mailto:CCNReservations@aol.com">CCNReservations@aol.com</a> or call the ACS office at 215-382-1589. For more information see <a href="http://www.chemconsultants.org">www.chemconsultants.org</a>.</p>
<b>Tuesday, March 16</b>	<b>Joint ACS/GSO Movie and Pizza Night</b> <p>This is being held as part of PACS Earth Day Activities. The movie will be "No Impact Man." Time is 6:00pm. This will be accompanied by a PACS information table/membership drive. Check <a href="http://www.princeton.edu/~pacs/">www.princeton.edu/~pacs/</a> or <a href="http://www.princeton.edu">www.princeton.edu</a> for updated information.</p>
<b>Thursday, March 18</b>	<b>Volunteers Needed for Princeton Science and Engineering Expo</b> <p>This year Princeton Chemistry Outreach has been asked to provide chemistry-related hands on activities for 1000 seventh grade visitors to Princeton Science and Engineering Expo at Dillon Gym on Thursday, March 18, 9:30 am-12:30 pm. (This year we'll entertain 3 groups of 300+.) We will set up at 8:00-9:30 am and clean up at 12:30 - 1:30 pm. If you are available for all or any portion of that time, please contact Kitty Wagner at (609) 258-2937 or <a href="mailto:kmwagner@princeton.edu">kmwagner@princeton.edu</a> as soon as possible.</p>
<b>Thursday, March 18</b>	<b>Thermo Fisher Scientific Invites PACS Members to 12th Annual Winter Research Symposia</b> <p>The 12th Annual Winter Research Symposia are mini-conferences whose invited speakers are prominent researchers in the area of vibrational imaging. This free event is beneficial to scientists and researchers looking for an affordable opportunity to learn powerful new applications and network with fellow spectroscopists in an informal workshop atmosphere! As many of cannot afford to travel in this tough economical environment Thermo Fisher Scientific is providing a free full-day program with complimentary lunch.</p> <p><a href="http://www.thermo.com/rss">www.thermo.com/rss</a>: Winter Research Symposia  <a href="http://www.thermo.com/naevents">www.thermo.com/naevents</a>: North America Events in Analytical Instrumentation</p>
<b>March 21-25</b>	<b>239th National Meeting &amp; Exposition of the American Chemical Society</b> <p>March 21-25, 2010, in San Francisco, CA. The Program Theme is Chemistry for a Sustainable World. Technical program and registration information is available at <a href="http://acs.org">acs.org</a>.</p>
<b>Thursday, April 22.</b>	<b>The North Jersey Drug Metabolism Discussion Group</b> <p>The group will hold its Spring meeting on April 22, 2010 at the Somerset Crown Plaza. The theme and speakers will be announced at a later date. For further information contact the section chair, Phil Krieter, at <a href="mailto:pakrieter@verizon.net">pakrieter@verizon.net</a>. For vendor information, contact Karen Dingley at <a href="mailto:karen_dingley@merck.com">karen_dingley@merck.com</a>. Information about the group can be found at <a href="http://www.njacs.org/drugmet.html">http://www.njacs.org/drugmet.html</a>.</p>
<b>June 21-25</b>	<b>ACS Announces 2010 Short Courses</b> <p>The 2010 Course Schedule has just been posted on the ACS website. See <a href="http://www.proed.acs.org">www.proed.acs.org</a> for complete details on the short courses and other professional development options offered by the ACS. Courses will be held in our area June 21-25 in Philadelphia. You can register online at <a href="http://acs.org">acs.org</a>. <u>ACS offers a 50% discount for unemployed ACS members who have paid up their dues.</u></p>

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the AliQuotes?**

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**Seeking Volunteers for  
Program Committee**

In an effort to provide better service to our members, the Princeton Section is establishing a program committee to help plan our monthly meetings and other events. If you are interested in serving on the committee, or if you just have a really good idea for a program, please contact chair-elect Kitty Wagner at 609 258-2937 or [kmwagner@princeton.edu](mailto:kmwagner@princeton.edu).



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