



# ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

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

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## MONTHLY DINNER MEETING

*and presentation of*

## 2009 OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER AWARDS

**Thursday, May 14, 2009**

*our speaker will be*

Karen M. Schaich, PhD  
Department of Food Science, Rutgers University

"The Alphabet Soup of In Vitro Antioxidant Assays:  
What Do Results Really Spell Out?"

Time: 6:00 PM

Location and dinner information is not yet available. A separate meeting announcement will be issued and also be posted on our website [www.princeton.edu/~pacs](http://www.princeton.edu/~pacs) when arrangements have been completed.

You can also contact Denise D'Auria at (609) 258-5202 or [denised@princeton.edu](mailto:denised@princeton.edu) for information in early May.



## News from the 237th ACS National Meeting

**New ACS Brand Introduced:** In order to unify the image projected by the ACS and better promote ACS programs, products or services, a new brand has been launched. A new logo (above) and other documents have been designed. Please see [www.acs.org/branding](http://www.acs.org/branding) for more information.

**2010 Member Dues:** Member dues for 2010 were set at the fully escalated rate of \$145. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

**Member Statistics:** At the close of 2008, Society membership totaled 154,024, compared to 160,052 for year-end 2007. These numbers reflect a drop in membership of approximately 2% due to the economy and a correction to the counts of 2,589 Emeritus members whom ACS has not been able to reach for many years. Compared to its sister societies, ACS experienced a smaller loss of members in 2008.

**Special Discussion Item:** A special discussion item was again put on the Council agenda for this meeting. ACS President Thomas H. Lane invited a discussion on what ACS can do to attract new members while better serving our membership during these challenging economic times. It focused on the value of ACS membership and on growth opportunities among students, international scientists, high school teachers, technicians, diverse ethnic groups and others.

**Attendance Report:** As of March 25, 2009, the ACS spring national meeting had attracted 10,668 registrants as follows: Regular attendees 5,781; Students 3,439; Exhibitors 780; Exposition only 411; and Guests 257.

**Professional Employment Guidelines:** The Council VOTED to approve the Professional Employment Guidelines, as submitted by the Committee on Economic and Professional Affairs. These guidelines offer a broad spectrum of recommended practices in employment for professional scientists and their employers. They and other guidelines can be found at [acs.org](http://acs.org).



## ACS Offers Benefits for Unemployed Members

During these tough economic times it's more important than ever to belong to the American Chemical Society. Unemployed members can tap into a host of valuable benefits and services that help them get back in the workforce. And, members in good standing may qualify for an unemployed member dues waiver, allowing them to renew their memberships and keep their member benefits at no cost. Contact ACS at [service@acs.org](mailto:service@acs.org), 800-333-9511 or 614-447-3671 for complete details.

Other valuable benefits that help ACS member get back in the workforce include:

- Free registration at ACS National Meetings and registration fees at Regional Meetings of just \$25. Meetings offer ACS Career Fairs with on-site interviews.
- Special discounts for ACS/Harvard courses, ACS ProSpectives and Short Courses, and the ACS Leadership Development System.
- Membership in the ACS Network, your online resource to connect and communicate with friends, colleagues, and potential employers
- Free Guidance from ACS Career Consultants – ACS mentors offer resume reviews, job search strategies, and interview tips that make you stand out from the rest.
- Free access to InterviewStream, an online tool that will sharpen your interview skills
- Members-only access to the ACS Salary comparator.
- And more!

Contact ACS customer service today at [service@acs.org](mailto:service@acs.org), 800-333-9511 or 614-447-3671 today and let us know how we can help.



## ACS Launches WEBCAM Interview

ACS has just launched a new service for job seeking ACS members. Through free access to InterviewStream you can now conduct a practice job interview online and get feedback on the interview. All you need is a computer and webcam. At the site you can pick your question set and conduct a practice interview. You can then view your practice interviews and critique your interviewing skills. Advice is also available from experts on how to approach certain questions, and how to avoid common interview mistakes. To learn more about this service and to conduct an interview go to <http://acs.interviewstream.com/home/>.



## Opportunity Abounds!

Kitty Wagner, Chair-Elect

Please consider taking advantage of one or both of these:

### ...Your Chance to be Heard

In an effort to provide better service to our members, the Princeton Local Section (PLS) executive board is establishing a *program committee*. If you have an idea for a topic you would like to know more about, a place you would like to visit, a program you would find helpful, or an activity that you would enjoy doing in the company of fellow chemists, you are an ideal candidate for membership. Ideas for family-friendly activities and programs of interest to the community are welcomed. If you like to help make ideas become reality, you are also an ideal candidate for program committee membership! If you are interested in serving on the committee, or if you just have a really good idea for a program, please contact PLS chair-elect Kitty Wagner, [kmwagner@Princeton.edu](mailto:kmwagner@Princeton.edu), 609 258-2937.

### ...And Your Chance to Make a Difference

If you are interested in educating the community about chemistry, National Chemistry Week presents a fine opportunity. If you would like to organize, help organize, or help execute programs for National Chemistry Week, October 18-24, 2009, or October 17-23, 2010, please contact NCW coordinator Kitty Wagner, [kmwagner@Princeton.edu](mailto:kmwagner@Princeton.edu), 609 258-2937. The theme for 2009 is "Chemistry—It's Elemental." The theme for 2010 is "Behind the Scenes with Chemistry."



## Jobs Openings Posted on Website

We are continuing to post new job opportunities on our section website. See [www.princeton.edu/~pacs](http://www.princeton.edu/~pacs) for this and other useful information. We also want to thank Sergio Anis for his help in keeping our website updated!



## Try out an ACS Webcast!

Few companies are immune from the economic hardships in the headlines and many budgets have been trimmed. But it is still crucial to your career to engage in continuing education to expand your skills and stay abreast of new topics. So save your time and money and take a look at the courses available online through ACS. ACS offers a wide variety of webcast short courses and our winter/spring schedule is open for registration now.

ACS Webcast Short Courses provide the same quality training that ACS has long been known for, but, because the courses are presented over the Internet, they offer added convenience and flexibility.

- **Economical:** Most ACS Webcasts cost less than \$100 an hour, which is far less than most technical training.
- **Easy:** Our technology is easy to use and works with all typical computer systems so virtually anyone can easily take a webcast from the comfort of their home, office, or lab.
- **Convenient:** Class attendance is NOT required. If you miss a class, simply use your on-demand access to the session recording so you can catch up on your own time.
- **Informative:** All class materials are available for download and you can email the instructor anytime.

There are expanded course offerings in analytical, organic, pharmacology, engineering, instrumentation, and other areas. For the full list of Webcast Short Courses and more information on available discounts, visit [www.acs.org/webcourses](http://www.acs.org/webcourses)

**Not sure if a webcast will work for you?** We are now offering **free** 30-minute **micro-courses** so you can get a sample of the content of our webcast courses. These micro-courses are taught by our webcast instructors and are a great way to get a taste of online learning to see if it's right for you and your team. Visit [www.acs.org/webcourses](http://www.acs.org/webcourses) for a list of offerings and contact [acswebcasts@acs.org](mailto:acswebcasts@acs.org) for access information.



## Chemagination 2009

Chemagination, a contest for high school students was held on Saturday, March 28, 2008 at the

Carl A. Fields Center of Princeton University. This is an annual competition jointly sponsored by the Princeton and Trenton Sections of the ACS. Students, working in teams of two or three members, are required to write an article for ChemMatters, an ACS publication, about an invention 25 years in the future that positively impact peoples lives. The articles must fit in one of four categories: Alternate Energy, Medicine and Healthcare, New Materials or Environment. The teams also must prepare a poster display and defend their invention during an interview by judges on the day of the competition.

This year we had teams from Hunterdon Central Regional High School, Hopewell Valley Central High School, Delaware Valley Regional High School, West Windsor-Plainsboro High School North and West Windsor-Plainsboro High School South. Fourteen teams, totaling thirty-eight students participated in the event. This years winners are:

### First Place

**“Grass Gas”**, Shawn Carrick, Alex Huang and Samir Koppolu, *West Windsor-Plainsboro High School South*, Alternate Energy Category.

**“Tooth Decay? No Such Thing!”**, Isha Desai and Ishaan Desai, *Hunterdon Central Regional High School*, Medicine and Healthcare Category

**“Coral Copulation”**, Abishy Pandita, Jason Tam and Kevin Zhang, *West Windsor-Plainsboro High School North*, Environment or New Materials

### Second Place

**“Microbial Fuel Cells: The Miracle Battery?”**, Shir Aharon, Tracie Kong and Louisa Ying, *West Windsor-Plainsboro High School North*, Alternate Energy Category.

**“Ethatonin: Ending Drunk Driving”**, Iana Karadjova, Rui Yu and Hannah Yue, *Hopewell Valley Central High School* Medicine and Healthcare Category

**“To See or Not To See”**, Srividya Suresh, Natasha Patel and Katherine Wu, *West Windsor-Plainsboro High School North*, Environment or New Materials Category

We wish to thank our judges Dr. Barbara Ameer, Dr. Dinshaw Bardoliwalla, Dr. James DeNoble, Dr. Jinping Gan, Dr. Allen N. Jones, Dr. Randy A. Weintraub and Dr. Duxi Zhang for their time and dedication. They had the difficult task of selecting the winners from among the many high quality entries.

We also wish to thank the faculty advisors Dr. Dan Allen (Hunterdon Central Regional High School), Dr. Lillian Rankel (Hopewell Valley Central High School), Ms Carol Peabody (Delaware Valley Regional High School), Ms Julie Norato (West Windsor-Plainsboro High School North), and Ms Karen Galley, West Windsor-Plainsboro High School South for the time, encouragement and support they gave their students.



## Photo Gallery

(at right) First Place Alternate Energy Category winners Samir Koppolu, Alex Huang and Shawn Carrick with their teacher Ms Karen Galley





(at left) First Place Medicine and Healthcare Category winners Isha Desai and Ishaan Desai

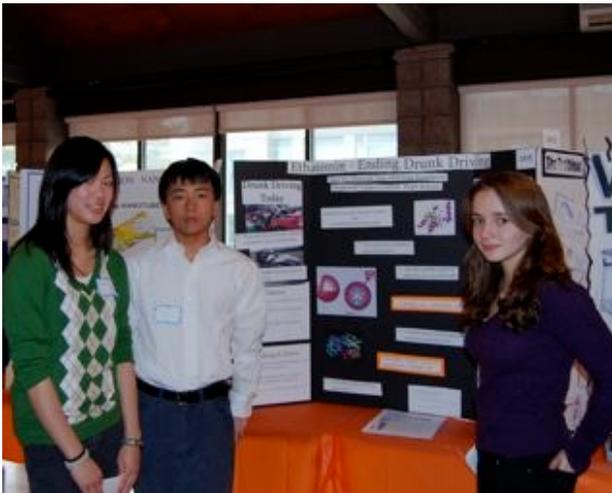
(at right) First Place Environment or New Materials winners Abishy Pandita, Jason Tam and Kevin Zhang



(at left) Second Place Environment or New Materials Category winners Katherine Wu, Natasha Patel and Srividya Suresh



(at right) Second Place Alternate Energy Category winners Shir Aharon, Louisa Ying and Tracie Kong



(at left) Second Place Medicine and Healthcare Category winners Hannah Yue, Rui Yu and Iana Karadjova



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US POSTAGE

ADDRESS CORRECTION REQUESTED

### ACS Presentations Available on Web

We invite you to visit [www.acs.org](http://www.acs.org) (click on the “Nanoscience” box in right margin) to **access over 30 recorded talks** presented at the **ACS Salt Lake City National Spring meeting**. This is an experiment for expanding the on-line delivery of national meeting content to the chemistry community. The talks were selected primarily from presentations associated with the theme of the meeting, *Nanoscience: Challenges for the Future*. Among others, you'll find the following:

- **Raymond Astumian**, Generalized Fluctuation-dissipation Relations for Brownian Sieves and Molecular Machines
- **Ashleigh Baber**, Thermal and Mechanical Activation of Single-molecule Thioether Rotors
- **Angela Belcher**, From Nature and Back Again: Giving New Life to Materials for Energy
- **Roman Boulatov**, Maximum Force Obtainable from a Molecular Photoactuator
- **Vicki Colvin**, Nanotechnology in the Environment: Safety by Design
- **Miguel Garcia-Garibay**, Crystalline Arrays of Molecular Gyroscopes: Toward the Limit of Barrierless Rotation in Solid State Materials
- **Mark Haidekker**, Molecular Rotors: TICT Fluorophores with Mechanosensitive Properties
- **James Hutchison**, Greener Nanoscience: A Proactive Approach to Advancing Applications and Reducing Implications of Nanotechnology
- **Heather Kalish**, Microchip Analysis of Neuronal Secretions by Immunoaffinity Capillary Electrophoresis
- **Anatoly Kolomeisky**, Thermally-driven Nanocars and Molecular Rotors: What Can We Learn from Molecular Dynamics Simulations
- **Josef Michl**, Toward Designed Surface Ferroelectricity
- **John Rogers**, Techniques for Molecular Scale and 3-D Nanofabrication
- **Mehmet Sarikaya**, Biohesion: Coupling Synthetic and Biological Entities Using Genetically Engineered Peptides
- **George Whitesides**, Nanotechnology in Adolescence

### TRI/Princeton Announces Course

TRI/Princeton to offer Porous Materials Course in Atlanta following World of Wipes Conference 2009

On June 24-25, 2009, Dr. Gerardo Callegari and Dr. Ilya Tyomkin will teach “Essentials of Porous Materials: Wetting, Penetration and Flow”. For more information, including pricing and hotel accommodations for this course, please contact the Course Registrar either by phone-(609) 430-4838, fax-(609) 683-7149 or email-[info@triprinceton.org](mailto:info@triprinceton.org), or visit our website at [www.triprinceton.org](http://www.triprinceton.org).