



# ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

September/October 2008

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

## Dinner Meeting and Networking Event

**Wednesday, September 17, 2008**

*Our guest speaker will be*

**Prof. Mary K. Carroll**

**Department of Chemistry, Union College,  
Schenectady, NY**

### "Building & Nurturing Networks"

Time: 6:00 PM  
Lecture: Frick Lab, Chemistry Library  
Dinner: Chemistry Library (following lecture)

#### Abstract

Networking, the process of gathering and maintaining formal or informal relationships for the purpose of exchanging information, is essential to anyone's career. A major benefit of ACS membership is access to a wide variety of networking opportunities: at local, regional and national meetings, in technical divisions, at workshops, and so forth. Local section meetings and events provide ACS members with outstanding opportunities to interact informally with other chemical scientists and engineers in their area and to build their networks. But, in practice, most people are uncomfortable engaging in conversation with strangers, so they approach, talk, and sit with others they already know. This has the benefit of reinforcing their current network, but doesn't allow them to build the network further. To help overcome this barrier, the Eastern New York ACS section initiated 'Speed Networking' activities. This presentation will provide a general overview of the benefits of building and nurturing your professional network as well as an introduction to Speed Networking.

#### Biography

Mary K. Carroll is Professor and Chair of Chemistry at Union College. Dr. Carroll teaches courses in introductory and analytical chemistry, and mentors undergraduate research students. Her research focuses on fundamental studies of dye interactions in sol-gel matrices and in solution, using molecular

spectroscopic methods, and on fabrication and characterization of novel aerogel materials for a variety of applications, including aerogel-platform gas sensors. At present, she has active NSF RUI and NSF MRI grants.

Dr. Carroll earned a BS in chemistry from Union College (1986), and a PhD in analytical chemistry from Indiana University, Bloomington (1991). Following a postdoctoral stint at the University of Massachusetts, Amherst, she joined the faculty of Union College in 1992. She received the 1995 Stillman Prize for outstanding teaching, and served as Director of Undergraduate Research from 2005 until 2008.

Dr. Carroll is active in the American Chemical Society (ACS) at the local, regional, and national levels. She presently serves as Councilor of the ENY ACS section, as a member of the Society Committee on Education (SOCED) and chair of the SOCED subcommittee on higher education. She serves as faculty advisor to Union's Chemistry Club, an ACS Student Affiliates chapter that has received recognition from the national ACS in each of the past fourteen years.

#### Reservations:

The meeting will be held in the Chemistry Library, which is on the 2<sup>nd</sup> floor of Frick Laboratory, Princeton University (if you enter Frick from the side door in the front of the building, the stairs to the 2<sup>nd</sup> floor are facing you.) The seminar is at 6 PM followed immediately by dinner. 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 (609) 258-5202 or [denised@princeton.edu](mailto:denised@princeton.edu) by Wednesday, September 10 to make or cancel reservations.

THE MAIN DOOR OF FRICK LABORATORY IS  
LOCKED AFTER 6 PM. PLEASE USE THE SIDE  
DOOR TO THE RIGHT OF THE MAIN ENTRANCE



## Report on the 2008 US National Chemistry Olympiad

By Bruce Burnham, Program Chair

The Trenton and Princeton sections of the ACS held their 2008 US National Chemistry Olympiad over the months of January through April. From the 167 students representing 11 of the local high schools, 16 of the students who earned the top scores on the local exam were selected to take the National exam at Rider University on Saturday, April 19, 2008. The local exam administered at the participating high schools was made up of 60 multiple-choice questions. The National exam consisted of three parts: Part I: 60 multiple-choice questions, Part II: 8 problem-solving/explanation questions, Part III: 2 laboratory problems, a lab practical exam. After a few years of placing students among the top-20 National Finalists out of 10,000 nationwide participants, our sections fell short this year and had no qualifying candidates for the Study Camp.

The Study Camp was held at the US Air Force Academy in Colorado Springs, CO June 1-15, 2008. The top six students from the Study Camp represented the United States in the **40<sup>th</sup> International Chemistry Olympiad (IChO) held in Budapest, Hungary July 12-21, 2008**. This year, the USA team won one silver medal and three bronze medals, the same medal count as the last two years. A total of 162 medals were awarded from a total of 257 participants representing 66 countries.

The Trenton Section recognizes **Ronak Gandhi** and **Kevin Gu** of **West Windsor-Plainsboro HS South** for achieving the highest scores (55/60) on the local exam. Likewise, the Princeton Section recognizes **Aditi Misra** of **Montgomery High School** for achieving the highest score (57/60) on the local exam. The local finalists who took the National exam were recognized at the Trenton Section Awards Banquet held on May 13, 2008 at Antonio's Restaurant in West Trenton. The following students participated in the National exam on April 19<sup>th</sup>:

### From the Trenton Section:

- Ronak Gandhi and Kevin Gu from West Windsor-Plainsboro HS South, sponsored by Karen Galley
- Shir Aharon from West Windsor-Plainsboro HS North, sponsored by Julie Norato
- Chris Babecki and Owen Healy from Hopewell Valley Central High School, sponsored by Dr. Lillian Rankel

- Adnan Cheema and Allan Mistuva from Lawrence High School, sponsored by Beth Volpe
- Sara Nagelberg and Bella Wight from Steinert High School, sponsored by Sarah Stocking
- Nevin Raj from Hunterdon Central Regional High School, sponsored by Dan Allen

### From the Princeton Section

- Maher Hadaya and Shyam Modi from Princeton High School, sponsored by Linda Kruegel
- Aditi Misra and Michelle Dai from Montgomery High School, sponsored by Rama Bulusu
- Kate Wiles of Stuart County Day School, sponsored by Joan Guest

All of the students seemed to enjoy and value their experience participating in the Chemistry Olympiad. We hope to have our best high school chemistry students continue to represent our section well in the US National Chemistry Olympiad for many years to come.

The 2008 USNCO High Schools and Teachers were:

### Trenton Section

Patrick Gibbons: North Hunterdon High School  
Beth Volpe: Lawrence Twp High School  
Dan Allen: Hunterdon Central Regional HS  
Dr. Lillian Rankel: Hopewell Valley Central HS  
Karen Galley: West Windsor-Plainsboro HS South  
Julie Norato: West Windsor-Plainsboro HS North  
Sarah Stocking: Steinert High School  
Allen Kingman: Nottingham High School

### Princeton Section

Linda Kruegel: Princeton High School  
Rama Bulusu: Montgomery High School  
Joan Guest: Stuart County Day School

The 2009 US National Chemistry Olympiad preparations are underway. I will again serve as the Olympiad Coordinator for both the Trenton and Princeton Sections. The program announcement letter will be sent out to the high school chemistry teachers in December. The National Exam will be held at Rider University next April and the 41st International Chemistry Olympiad will be held in Cambridge, England, on July 18-27, 2009.



## 50 & 60-Year PACS Members Recognized

Each year, the ACS gives special recognition to those members that have served the society for 50 years. As an added reward for meeting this milestone, they are entitled to receive C&EN at no cost, pay no ACS annual dues and pay no ACS National Meeting registration!

The **fifty-year** members of the Princeton Section for 2008 are:

Dr. Ronald McCaully  
Dr. John Wise.

In addition, the following have been members for **sixty- plus years**:

Mr. Dennis A. DeMaio  
Dr. Klaus Georg Florey  
Dr. Israel Joel Heilweil  
Dr. Charles Lynch  
Dr. David Burton Todd

In honor of this achievement, they were invited to be our guests for dinner at the June 4 Princeton Section meeting and summer barbecue. We were pleased that Charles Lynch and David Todd were able to join us for this occasion! Certificates of Recognition were presented.

*Photo: Dr. Charles Lynch (on left) being presented certificate by David Carrick, 2008 Chair-Elect*



*David Carrick, 2008 Chair-Elect, presenting certificate to Dr. Todd (on right)*



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## Section Presents 2008 Alyea Awards

The namesake of this award, Hubert Alyea, was a Professor of Chemistry at Princeton University who was world renowned for his scientific demonstrations, his enthusiasm, and his love of scientific discovery.

This award, which is given to area high school students on an annual basis, is unique in that it leaves the criteria for the award at the discretion of the Science Department of each high school. The one stipulation made by the Award Committee is that the selection not be based on test scores or grade point averages. The Section seeks to recognize the student who is excited by scientific discovery, as was the award's namesake, Hubert Alyea.

We are pleased to announce the 2008 winners:

|                  |                       |
|------------------|-----------------------|
| Monica Banerjee: | Princeton High School |
| Daniel Becerra:  | Lawrence High School  |
| Bruce Clarke:    | The Hun School        |
| Benjamin Fisch:  | Princeton Day School  |

|                   |                               |
|-------------------|-------------------------------|
| Glynnis Kearney:  | Stuart Country Day School     |
| Nancy Ko:         | W Windsor-Plainsboro South HS |
| Kirsten Parratt:  | The Lawrenceville School      |
| Pooja Yerramilli: | Montgomery High School        |

The award consisted of a plaque and check for one hundred dollars. They were given at the May 31 Hubert Alyea Award Presentation during Reunion Weekend at Princeton University.



## Chemagination at MARM 008

The regional Chemagination contest took place this past May 17 at Queensborough Community College, Bayside, NY. Dr. Vijaya L. Korlipara, Professor of Medicinal Chemistry, St. John's University was the contest coordinator.

The Princeton & Trenton sections were ably represented by the first place category winners from our local competition, which was held this past February 23. They were:

Alternate Energy: "Fusion of He-3", *Shawn Carrick, Samir Koppolu and Dan Messina*, West Windsor-Plainsboro High School South

Medicine/Healthcare: "Self-Correcting Contact Lenses", *Neeli Mishra, Anna Lee Scharfstein and Athena Xie*, West Windsor-Plainsboro High School South

New Materials: "Oh, What Tangled Prosthetic Limbs We Weave", *Samantha Lee, Urjita Sudula and Brynja Winnan*, West Windsor-Plainsboro High School South

Environment: "Kelp Help", *David Hao, Piyush Poddar and Alp Yurter*, West Windsor-Plainsboro High School South

We are pleased to announce that two of these teams went on to win first place in their categories at MARM 2008! The first place winners of the regional contest were:

Alternative Energy: "Third Generation Solar Materials", Hunter College High School

Environment: "Kelp Help", West Windsor-Plainsboro H.S. South

Medicine/Health: "Apollites", Division Avenue High School,

New Materials: (tied for first place)  
 - "Smart Clothes", Half Hollow Hills High School West  
 - "Oh, What Tangled Prosthetic Limbs We Weave", West Windsor-Plainsboro H.S. South

### Princeton & Trenton Section Participants

*Photo: Back (l to r): Piyush Poddar, Alp Yurter David Hao, Shawn Carrick, Samir Koppolu*  
*Front (l to r): Athena Xie, Anna Lee Scharfstein, Neeli Mishra, Brynja Winnan and Urjita Sudula*





## 2008 Outstanding High School Chemistry Teacher Awards

**P**resentation of the Outstanding High School Chemistry Teacher Awards took place Wednesday, May 21, 2008 at the Princeton ACS dinner meeting.

The purpose of this award, which is jointly sponsored by the Princeton and Trenton sections, is to recognize, encourage and stimulate teachers of high school chemistry. Teaching quality, ability to challenge and inspire students, willingness to keep up to date in the field, evidence of leadership, and extracurricular work in chemistry are the criteria used to select the winner. The award consists of a plaque and check for \$250.

We are pleased to announce that this year's winners were **Mr. Paul Lucuski from Trenton Catholic Academy** and **Dr. Franco Paoletti from Hightstown High School – East Windsor Regional School District**.

Paul Lucuski received a BS in Chemical Engineering from Lehigh University in 1967 and his MA in Science & Math Education from Trenton State College in 1973. His teaching career spans thirty years, the last ten of which have been at Trenton Catholic Academy where he also serves as department chairman. He has received numerous fellowships and research grants from industry and education and has used the results of his research to enhance the chemistry curriculum in his classroom and enrich his students.

*Photo: Paul Lucuski (left) receiving plaque from Dr. Andrew Bocarsly, 2008 Section Chair*



Since 2002, he has been affiliated with Rider University and also been the Associate Director of Project Seed. He

has received numerous awards including the 2007 Mercer County Science Teacher of the Year

Dr. Paoletti received a Ph.D. Physics from the University of Rome, Rome, Italy and an M.S. Management and Leadership from Thomas Edison State College, Trenton, NJ. Starting in 1989, he has held various research positions in Academia and Government Institutes in Europe and the United States. He began teaching chemistry at Hightstown High School in 2002.

At Hightstown, he designed and constructed a state-of-the-art point of service computer laboratory in his classroom as part of his "Science of the Real World within the Classroom Walls" project. To implement it, he secured funds through grants from independent sources in the local community. This lab is providing students with the opportunity of performing science-related virtual activities, which mimic real work environments.



*Photo: Franco Paoletti (left) receiving plaque from Dr. Andrew Bocarsly, 2008 Section Chair*

In 2006, the Princeton Regional Chamber of Commerce recognized Dr. Paoletti for his innovative work in applied-chemistry and the effort to integrate real-world technology into instruction conferring him the Educator Institute Teacher of the Year award.

The Executive Boards of the Princeton and Trenton Sections extend our most sincere congratulations to Mr. Lucuski and Dr. Paoletti for these well-deserved awards!



**The Princeton Section of the American Chemical Society**  
*announces registration for*

**THE 30<sup>th</sup> ANNUAL PRINCETON ACS  
FALL ORGANIC CHEMISTRY SYMPOSIUM**

Friday, September 19, 2008  
**Registration 12:00-1:00 p.m.**  
**Symposium 1:00-8:30 p.m.**  
Forsgate Country Club, Monroe Township, New Jersey

"Discovery of Ixempra<sup>TM</sup> (Ixabepilone), an Epothilone Analog for Treatment of Metastatic Breast Cancer."  
**Dr. Gregory Vite**, Bristol-Myers Squibb

"Synthesis of Natural Products with Antitumoral Activity"  
**Professor Janine Cossy**, The Laboratory of Organic Chemistry, École Supérieure de Physique et de Chimie Industrielle de la Ville de Paris

"Catalytic Organometallic Carbon-Heteroatom Bond Formation"  
**Professor John F. Hartwig**, Department Of Chemistry, University of Illinois

"The Origin of Homochirality on Earth"  
**Professor Ronald Breslow**, Department of Chemistry, Columbia University

Registration/Reception/Dinner: \$90.00 (\$25.00 students/postdoc)

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**Name:** \_\_\_\_\_ **Telephone/Fax:** \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

If Student/Postdoc, list Advisor: \_\_\_\_\_

Vegetarian dinner required (check box) ☐

**Return to:** Denise D'Auria  
Princeton University  
Chemistry Dept., Frick Labs  
Princeton, NJ 08544-1009

**Please make checks payable to:**  
**"Princeton ACS Fall Organic Symposium"**

**MONEY IS DUE BY AUGUST 22, 2008**

Please visit the symposium website at <http://www.pacsfocs.org> for more information.  
(There is currently no on-line registration. Checks must be mailed to the above address.)



## 🕒 FALL CALENDAR OF EVENTS 🕒

### **FUNCTIONAL PACKAGING THROUGH CHEMISTRY”**

**Time: 1:00 pm to 6:30 PM, October 29, 2008 (Wednesday)**

**Location: NJIT Campus Center, Newark (NJ), Grand Ballroom**

ORGANIZER: Dr. Tamal Ghosh ([tamal@alumni.stevens-tech.edu](mailto:tamal@alumni.stevens-tech.edu))

CO-ORGANIZERS: Dr. Bin Wei (ICI National Starch and Chemical [bwei01@gmail.com](mailto:bwei01@gmail.com)) and Dr. Ankur S. Kulshrestha (BD Medical, [Ankur\\_Kulshrestha@bd.com](mailto:Ankur_Kulshrestha@bd.com))

This symposium is presented by the Polymer Topical Group of the North Jersey Section of the American Chemical Society. It features presentations contributed by leading scientists from both academia and industry. The event is intended to bring the local polymer science community up-to-date on the advancements in the chemistry relating to packaging, in a range of applications such as pharmaceuticals and vaccines, food packaging, electronic devices, and many other exciting areas. Updated information will be available in late August at the PTG website [<http://www.njacs.org/ptg.html>].

The PACS Executive Committee will meet October 17 at Wyeth Research, Monmouth Junction from 11:30AM – 1:30PM. Interested Princeton ACS members are welcome to attend. Contact Lynne Greenblatt [greenbl@wyeth.com](mailto:greenbl@wyeth.com) to make a reservation.

September 15-16: TRI/Princeton will be hosting the  
**Third International Conference on Applied Hair Science**  
Princeton, NJ. See (<http://www.triprinceton.org/hair2008>).

**Celebrate National Chemistry Week (NCW) 2008!**  
**Theme: “Having a Ball with Chemistry”**  
**October 19-25, 2008**

Watch [www.princeton.edu/~pacs](http://www.princeton.edu/~pacs) for information about our  
Annual Open House!

The October Joint Meeting of the Princeton ACS & Central Jersey AIChE is being planned. Tentative dates are Wednesday, October 14 or 21, 2008. The guest speaker will be Dr. Tom Tritton, President of the Chemical Heritage Foundation. Check our website [www.princeton.edu/~pacs](http://www.princeton.edu/~pacs) for updated meeting information!

| <b>2008 Princeton ACS</b><br><b>Executive Officers &amp; Committee Chairs</b>                                          |                                                                                                                         |                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Chair:</b><br>Andrew Bocarsly<br>Princeton University<br>(609) 258-3888<br>bocarsly@princeton.edu                   | <b>Chair-Elect:</b><br>David Carrick<br>dcarrick@comcast.net                                                            | <b>Past-Chair:</b><br>George Crull<br>Bristol-Myers Squibb<br>(609) 252-5805<br>george.crull@bms.com |
| <b>Secretary / Treasurer:</b><br>Sharon Sibilía<br>(609) 520-1288<br>sharon.sibilía@verizon.net                        | <b>Councilor (2006-08):</b><br>Lynne Greenblatt<br>Wyeth Research<br>(732) 274-4549<br>greenbl1@wyeth.com               | <b>Councilor (2008-10):</b><br>Louise Lawter<br>louise.lawter@gmail.com                              |
| <b>Webmaster:</b><br>Jonathan Chun<br>Alliance Technologies, LLC<br>(732) 355-1234<br>jchun@alliancetechnology.com     | <b>Alt. Councilor (2006-08) :</b><br>Kathryn Wagner<br>Princeton University<br>(609) 258-2937<br>kmwagner@princeton.edu | <b>Alt. Councilor (2008-10):</b><br>Bill Barnard<br>Zev4US@yahoo.com                                 |
| <b>National Chemistry Week :</b><br>Kathryn Wagner<br>Princeton University<br>(609) 258-2937<br>kmwagner@princeton.edu | <b>Government Affairs:</b><br>Lynne Greenblatt<br>Wyeth Research<br>(732) 274-4549<br>greenbl1@wyeth.com                | <b>Newsletter &amp; Public Relations:</b><br>louise.lawter@gmail.com                                 |
| <b>Chemagination:</b><br>Louise Lawter & Sharon Sibilía<br>chemagination@yahoo.com                                     | <b>Outreach:</b><br>Bill Barnard<br>Zev4US@yahoo.com                                                                    | <b>Earth Day:</b><br>Schuyler Antane<br>Wyeth Research<br>antanes@wyeth.com                          |



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