



ALI "QUOTES"

Volume 15, Issue 3 THE NEWSLETTER OF THE PRINCETON ACS

May/June 2005

UPCOMING MONTHLY MEETINGS

Thursday, May 5, 2005

Dinner Meeting

**Speaker: Madeleine Jacobs, Executive Director and
Chief Executive Officer of the ACS**

**Topic: The Changing Nature of the Chemical
Enterprise: Whither Chemists and the American
Chemical Society?"**

Lecture: 6:00 PM, Frick, Kresge Auditorium (room 120)

Dinner: Immediately following, at Prospect House

Abstract

Long called the "central science," chemistry has also become the "unifying science." Chemists increasingly are working at the interface of many disciplines: medicine, biology, physics, mathematics, materials science and engineering, electronics, computational science, and engineering. In addition, the chemical enterprise is becoming more global and is facing strong competition from other nations around the world. What does this rapidly changing world mean for chemists and their main professional association, The American Chemical Society? The speaker will discuss what ACS is doing to meet these challenges.

Biography

Madeleine Jacobs received a Bachelor of Science degree in chemistry at George Washington University (with honors and distinction) in 1968. She completed course work for a Master's Degree in organic chemistry at the University of Maryland in 1969. Jacobs received an honorary Doctor of Science from George Washington University in 2003.

Prior to her selection by the ACS Board of Directors as Executive Director and CEO, Jacobs served for eight and a half years as Editor-in-Chief of Chemical & Engineering News magazine, the weekly newsmagazine of the chemical world published by ACS, and two years as Managing Editor. She has held other senior management positions in a wide variety of scientific and educational organizations including the National Institutes

of Health, the National Institute of Standards and Technology, and the Smithsonian Institution, where she served as the director of Public Affairs at the world's largest museum complex.

Major honors include the Smithsonian Institution Secretary's Gold Medal (1993), the New York Academy of Sciences Women History Month Award (2001), the 75th Canadian Society for Chemistry Conference Lecturer (2002), the ACS Award for Encouraging Women into Careers in the Chemical Sciences (2003), and the American Crystallographic Association Public Service Award (2004). A much-honored science journalist, she has also received more than three dozen awards for outstanding science writing from national organizations.

Reservations

Meeting will be held in Kresge Auditorium (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. Please contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu for reservations at least one week prior to the meeting.

Wednesday, June 15, 2005

Dinner Meeting

**Speaker: Dr. John Siekierka, Pharmaceutical
Research & Development, Johnson & Johnson**

Topic: Cypher Stent Development

Lecture: 6:00 PM, Frick, room 324

Dinner: Immediately following, at Prospect House

Abstract and Biography will be posted on our website
www.princeton.edu/~pacs.

Chairman's Corner

Signs of spring are all around us now, and those of you that were able to attend the April 14th PACS meeting saw the beautiful magnolias in full bloom on the Princeton Campus. That wasn't the only highlight of the evening, however!



Dr. Philip Hamaan of Wyeth Research spoke of his work in the area of calicheamicin-antibody conjugates. Calicheamicin is a novel natural product isolated from soil that causes oxidative damage to DNA. Its extreme potency made it an ideal candidate for targeting tumor cells. After several years of research, the conjugate Mylotarg® was approved for use in relapsed acute myeloid leukemia in 2000. We were able to learn more about Dr. Hamaan's current research at Wyeth over an enjoyable dinner at Prospect House.

The flowers were not yet blooming for our March meeting, but the enthusiasm of our guest speaker, Dr. Martha Greenblatt, made up for this short fall. She shared her love of solid-state chemistry with us as she presented an overview of her career as a solid-state chemist and touched on key areas of her research. We then moved the conversation to Kalluri Corner where we conducted some gastronomic experimentation.

On March 17th, the annual Science and Engineering fair was held at Princeton University and some of our members volunteered their time to help the visiting middle school students discover the chemistry of "glue putty". Kitty Wagner's report on the day's activities can be found later in the newsletter. Our outreach to the community continued with a visit to the Village Charter School in Trenton on March 21st. Bill Barnard gave demonstrations on the property of liquid nitrogen to 4th, 5th, and 6th graders. The students were enthusiastic and asked many good questions. Bill emphasized that at least half of college chemistry students are now women. It's an equal opportunity profession.

A more diversified workforce is one of many changes we have seen in the chemical industry over the past several years. As chemists, we may have questions about the future of field. How will the job market be affected? What changes will take place in chemical education to prepare the next generation of chemists. We have asked Madeleine Jacobs, Executive Director of the ACS to address this topic and she will do so on May 5th. I hope you can join us for what should be a lively discussion. On June

15th, we will have our annual barbecue for the last meeting of the season. Dr. John Siekierka from Johnson & Johnson will be speaking on the development of the Cypher Stent.

Our monthly meetings will resume again in the fall when Congressman Rush Holt will be our guest speaker. This will also be a joint meeting with the Princeton Section of the American Institute of Chemical Engineers (AIChE).

Since this will also be the last Ali"Quotes" before the summer, I will take this opportunity to wish you a great July and August.

See you in September!
Louise Lawter, Chair 2005

2005 OFFICERS / COMMITTEE CHAIRS

Chair:

Louise Lawter
L_Lawter@hotmail.com

Chair-Elect:

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

Councilor:

Lynne Greenblatt
Wyeth Research
(732) 274-4549
greenbl1@wyeth.com

Alt. Councilor:

Kathryn Wagner
Princeton University
(609) 258-2937
kmwagner@princeton.edu

Webmaster:

Jonathan Chun
Alliance Technologies, LLC
(609) 951-3145
jchun@alliancetechgroup.com

Outreach

Bill Barnard
Zev4US@yahoo.com

Secretary / Treasurer:

John Chiarello
FMC
(215) 321-4879
JOHN_CHIARELLO@fmc

Councilor:

Barbara Lences
Wyeth Research
(732) 274-4678
lencesb@wyeth.com

Alt. Councilor:

Sharon Sibilia
(609) 520-1288
sibilia@erols.com

Education:

Andrew Bocarsly
Princeton University
(609) 258-3888
bocarsly@princeton.edu

News from the Board

The PACS executive committee met this past April 10th. Some of the highlights from the meeting were:

Science Olympiad: We were asked by Hallie Kleinfeld-Hayes to assist with the program at Montgomery Middle School next year. The board agreed to do so and to also offer help to other schools. MMS will begin training for the competition in September. **If you are interested in helping out with this effort or learning more about the program, please contact Louise Lawter at L_lawter@hotmail.com or Bill Barnard at Zev4US@yahoo.com.**

Innovative Grants: Substantial funds are available from the ACS for Innovative Grants. These grants are designed to support programs of interest to ACS Divisions or Local Sections. Each grant can total up to \$3000. Application information can be found at Chemistry.org. The next deadline is August 1st. **If you have any ideas about potential programs helpful to the Princeton ACS community please contact L_lawter@hotmail.com or any board member. We are waiting for your input!**

Joint Meeting: The Princeton AICHE will join us for the September dinner meeting. It will be held at the Friend Center at Princeton University.

October at Wyeth: The board discussed various ways to reach out to the membership and one proposal was to vary the location of the meetings. It was therefore decided to hold the October meeting at Wyeth Research in Monmouth Junction, NJ.

PRINCETON UNIVERSITY SCIENCE AND ENGINEERING EXPO 2005

My heartfelt thanks to the Princeton Local Section members who helped with Frick Laboratory's part of Princeton University's second Science and Engineering Expo for middle school students on March 17. The Expo was organized by Ann Sliski, outreach coordinator for Molecular Biology, who worked with coordinators at Icahn Lab, McDonnell Hall, Friends Center and Frick Lab to provide activities related to life sciences, physics, engineering, and chemistry. Faculty, staff, and students from more than a dozen academic departments and programs, as well as the Princeton Plasma Physics Lab, participated.

Four groups of seventh graders—a total of over 900 students—rotated through each of the four locations. At Frick, each group saw an introductory program of chemical demonstrations by Kitty Wagner and then went to the general chemistry labs to make green glue putty. During the introductions, Bill Barnard, Derk Huibers, Frank Long, James Amick, Klaus Wagner, Louise Lawter, and Zoltan Soos, described the types of work they do or have done in chemistry and chemical engineering. Then they joined Chemistry Department members Ginny Eulo, Julie Arnheim, and Lolly O'Brien, and Princeton students Don Johnson, Mike Zdilla, Brian Muegge, Sue Chern, and Sean Leimbach in the labs. Without their helping hands, the popular lab activity would have been impossible. Time was short, so setting out materials for 250 students four times and cleaning 250 pairs of safety glasses between groups was not trivial! Special thanks to Klaus for pre-measuring most of the glue and to Louise for acting as photographer.

You'll all be happy to know that, in the student evaluations we have received, elements from the chemistry program have appeared on quite a number of lists of "3 things I learned" and "2 things I thought were cool". A lot of cool stuff was going on at the other locations, too, so our work was not in vain!

Kitty Wagner
Event Chemistry Coordinator

PHOTO GALLERY (photos by Louise Lawter)

Kitty Wagner
greeting the
students (right)

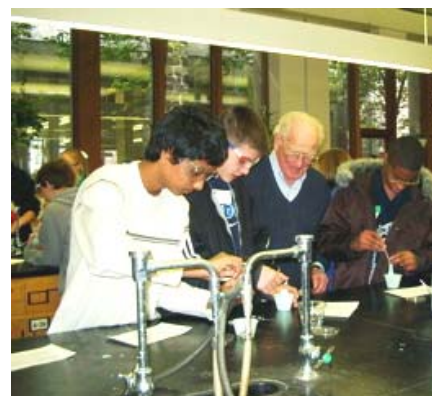


Students in the
lab having fun
with Chemistry!



(below)

Bill Barnard demonstrating good 'glue
putty' technique (below)



2005 Calendar Of Events

Princeton Section

Monthly meetings are held at Princeton University, Frick Laboratory unless noted otherwise. Lecture is at 6PM. Contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu for more information.

May 5: Madeleine Jacobs, ACS Executive Director. Topic: The Changing Nature of the Chemical Enterprise: Whither Chemists and the American Chemical Society?"

June 15: John Siekierka, PRD, Johnson & Johnson. Topic: Cypher Stent Development

September 19: Rep. Rush Holt, NJ Congressman, 12th District. Topic: TBA. Meeting location: Princeton University, Friend Center auditorium

October 13: Alexander M. Shedrinsky, Long Island University. Topic: Chemical Aspects of Art Restoration. Meeting location: Wyeth Research, 865 Ridge Road, Monmouth Junction, NJ

November 9: Andrea Mandel, Packaging Consultant. Topic: Chemistry and Packaging

December 8: Irving Fishman, Patent Attorney. Topic: Technical Patents

Trenton Section

Dinner is at 6PM followed by the lecture at 7PM. For more information contact trentonacs@lycos.com.

May 10: Award Night. Meeting location: Amalfi's Cuisine, 146 Lawrenceville Penning Rd, Lawrenceville, NJ, (off of route 206), phone 609-912-1599.

MARM 2005

May 22-25th: 37th ACS Middle Atlantic Regional Meeting, Rutgers University, Piscataway, NJ. See <http://marmacs.org> for registration and abstract details

MARM 2006

June 4-7, 2006, "Chemistry in Chocolate Town," Hershey Lodge and Convention Center, Hershey, PA

Organized by the Southeastern Pennsylvania and Susquehanna Valley Sections in collaboration with MARM Sections.: Help organize MARM 2006
GET INVOLVED! Contact general or program co-chairs; visit the MARM website (www.marm2006.org)

NATIONAL CHEMISTRY WEEK 2005

We hope to see all the old faces and many new ones for the next National Chemistry Week Open House on FRIDAY, OCTOBER 21, 2005, when the theme will be "THE JOY OF TOYS." If you'd like to join the fun, or if you have ideas for activities, e-mail Kitty Wagner, kmwagner@princeton.edu, or call 609 258-2937. **SAVE THE DATE!**



Princeton Section ACS

Department of Chemistry
Princeton University
Princeton, NJ 08544-1009

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Mailing Address
Street Number and Name
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