



ALI "QUOTES"

Volume 13, Issue 4

THE NEWSLETTER OF THE PRINCETON ACS

July/Aug 2003

Chairman's Corner

Fiona Case

Colgate-Palmolive

Welcome to the summer edition of AliQuotes. The last two months have been very busy for our Local Section. Our May meeting continued the Local Chemistry theme with a presentation by Gail Eaton, President of TRI Princeton, on TRI's work in textiles, fibers, cosmetic chemistry, and nanotechnology. The event attracted a number of people from the Princeton community who do not normally attend our meetings (this is one of our objectives for the year). The same was true of our June meeting (our Summer Celebration). Presentations on Soil Chemistry by Satish Myneni, Dept. of Geosciences, Princeton University, and on Chemistry in the Garden by Joseph Heckmann, Dept. of Plant Biology and Pathology, Rutgers University, attracted a good number of local gardeners. We were very fortunate with the weather for our first barbeque in the beautiful gardens of Prospect House.

In May we marked the end of our 75th year with a special ceremony during the Princeton University Reunions celebrations. We dedicated a display cabinet, which will be the permanent home for our founding document, and a source of information for the PU community about our Local Section activities. During the Alyea lecture we presented awards to local high school students who have shown a particular aptitude and interest in chemistry.

In June many of us were involved in the ACS Mid-Atlantic Regional Meeting (MARM), which was co-hosted by Princeton University and the ACS Trenton Local Section. The meeting was a great success (see reports and photos in this issue of AliQuotes, and at our web site www.princeton.edu/~pacs).

The next couple of months will be a little quieter. For the first time we will be holding Local Section meetings over the summer. On July 24th Nelly Aranibar, Bristol-Myers

July Meeting

Speaker: Nelly Aranibar
Bristol-Myers Squibb

Topic: "Automatic herbicide mode-of-action determination by NMR and Neural Network Analysis"

Date: Thursday, July 24, 2003
Lecture at 6 PM
Room 324, Frick Laboratory
Princeton University
Dinner immediately after meeting
BBQ in the gardens of Prospect House
Princeton University

Abstract: Rapid classification and identification of the mode-of-action of bioactive compounds applied to plants can be achieved by a robust and easy-to-use metabolic profiling method. This method uses artificial neural network analysis of one-dimensional proton NMR spectra of aqueous plant extracts to rapidly classify changes in the total metabolic profile caused by the application of crop protection chemicals. ☐

Members of the Princeton Local Section dine with Jim Burke, ACS Director, at the MARM barbeque.



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Squibb, will tell us about automatic herbicide mode-of-action determination by NMR and neural network analysis. Nellys talk will be followed by a second barbecue in the gardens of Prospect House. In August we will have the first of two talks with an environmental chemistry theme. James De Noble, NJ Department of Environmental Protection, will talk about the major issues concerning environmental mercury and its role as a unique persistent bioaccumulative toxin.

I have now been your chair for 6 months. I am thoroughly enjoying working with you all (especially the committee members) in our many activities. I'm delighted to report an increased attendance at our meetings, and at the dinners. We have been especially active with our outreach activities, including participation the Trenton Super Science Weekend and school science lessons, the Chemagination contest, Chemistry Olympiad contest and Alyea awards for high school children, the teacher training events, and our careers programming at the MARM. However, all this activity has come at a price, and some of our regular corporate sponsors were unable to support us this year. At our recent executive committee meeting we started to discuss possible cost cutting measures. There will be a small increase in the cost of the dinners (which will still be subsidized, particularly for retirees and students). If you regularly use email, we would encourage you to receive AliQuotes electronically to save postage costs (instructions at our web site: <http://www.princeton.edu/~pacs>). If your company is not currently supporting us, and might like to, please let us know. Any other suggestions will be gratefully received!

Fiona Case cuts the ribbon at the dedication of the new ACS Princeton Local Section display case in the foyer of the Princeton University Frick Chemistry Laboratories.



August Meeting

- Speaker:** James De Noble
NJ Department of Environmental Protection
- Topic:** "The Major Issues Concerning Environmental Mercury and it's Role as a Unique Persistent Bioaccumulative Toxin"
- Date:** Wednesday, August 20, 2003
Lecture at 6 PM
Room 324, Frick Laboratory
Princeton University
Dinner immediately after meeting
Prospect House
Princeton University
- Abstract:** This talk will focus on the major issues concerning environmental mercury and its role as a unique persistent bioaccumulative toxin ☒

Careers Event at MARM

Kitty Wagner

On June 9th the ACS Princeton and Trenton Local Sections organized a careers event in conjunction with the ACS MARM. More than 100 job seekers attended workshops, discussion panels, a regional employment clearing house (RECH), and the Job Fair and Local Industry Showcase. We are very grateful to Jura Viesulas and the ACS Careers staff from Washington DC, and to Bill Suits, Valerie Koch and Anita Brandolini (North Jersey Local Section), Lisa Balbes (St Louis Local Section) and Jim Burke (Philadelphia Local Section), who ran the workshops and conducted more than 50 resume reviews.

Report on MARM Teacher Day

Kitty Wagner

MARM was host to over 70 K-12 teachers on Teacher Day, June 10. Teachers attended the regular symposia and poster sessions and participated in special workshops. David Lawes (Lawrenceville School) chaired a session for high school teachers, and Kathryn Wagner (Princeton University) led a hands-on workshop for K-8 teachers. The day included a buffet dinner for all educators, and for industrial chemists with an interest in education, and a presentation by Prof. Bassam Shkhashiri, University of Wisconsin, Madison. (Special events were sponsored by Bristol-Myers Squibb Foundation and Merck Institute for Science Education.) The MARM Award for Excellence in High School Teaching was presented to Rebecca Isseroff, West Hempstead, New York. You will all be delighted to hear that a few high school teachers brought enthusiastic honors and advanced placement students. The next generation of chemists is assured!

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Sign up Early for Careers Events at the ACS National Meeting in New York September 7th – 11th

The ACS Career Resource Center at the New York National Meeting will be located in the Galleria of the Javits Convention Center on Sunday from 10 AM to 7 PM, and Monday through Wednesday from 8 AM to 5 PM. Services will include:

The National Employment Clearing House (NECH), open to all ACS members and national and student affiliates. The NECH provides members and employers with a venue to meet and discuss job opportunities. All participants, including employers, can sign up at <http://chemistry.org/careers/newyork2003>, and start using the NECH database to prepare for the meeting as early as July 14 (the deadline is September 8)

The NECH database system allows job candidates to obtain information about jobs and employers before the meeting. You can search job postings, post your resume, request and schedule interviews. The database allows employers to communicate with job candidates completely online. You can search resumes across a number of criteria, set up interviews, send/receive email from candidates, and collect statistics on postings and interviews.

The Career Resource Center will also provide services to enhance your career potential, including resume reviews and mock interview sessions. There will be variety of workshops on topics including: effective networking, interviewing 101 and 102, negotiating a career transition during tough economic times, academic jobs, obtaining a job in the USA (for non-US scientists), becoming a consultant, tough interview questions, opportunities in the bio and pharma areas, and employment trends.

For more information on any of these programs, please contact ACS Career Services, (800) 227-5558 ext. 6210 or email: t_williams@acs.org.

36th ACS Mid-Atlantic Regional Meeting (MARM).

During June, the ACS Trenton LS and Princeton U Chem Dept co-hosted the 36th ACS Mid-Atlantic Regional Meeting (MARM). We wish to thank a number of Princetonians involved in MARM:

Marcel Nooijen who helped entice Dr. Tilghman to speak and encouraged PU chem grad students Pete & Catherine Cresson to help at the registration table

Kitty Wagner for organizing Teachers Day and bringing Bassam Shakhshiri from Wisconsin for his engaging showmanship as well as for her own energetic educational demos

David Laws of Lawrenceville School for bringing many additional teachers in and running an exciting session

Sharon Sibilia for partnering with National to host and judge the HS Chemagination competition including a student walking tour of Princeton

Fiona Case with Barb Lences et. al. for extending traditional employment events into the evening and enhancing them to focus on the underemployed

Andy Bocarsly for bringing the Chem Dept on board and for his Fuel Cells symposium.

It was a solid meeting, with between 850 and 900 attendees, not including careers-only people. Technical symposia were of a high quality and well attended (several seeking larger rooms). There were six poster sessions. Undergrads had a party and tour of Wyeth Research. An eloquent acceptance speech was given by Regional High School Teacher winner Rebecca Isseroff of Hewlett Bay Park, LI, a nuanced talk by PU President Shirley Tilghman on promoting women within academia, a forward looking talk on research at Lucent by ACS President Elsa Reichmanis, a presentation by innovative DuPont scientists on safening pesticide production following Bhopal, and the chance to hold Nobelist Alan MacDiarmid's medal and hear his story.

Thanks to all who enhanced this fine meeting.
Pete Boughton & Jerry Goodkin, CoChairs

NCW 2003

Kitty Wagner

Mark your calendars for National Chemistry Week, October 19-25, 2003. This year's theme is "Earth's Atmosphere and Beyond." The Princeton Local Section will hold an open house, with hands-on activities for children and their parents, on Friday, October 24. If you are interested in helping, or if you have any suggestions for activities related to the topic, please contact Kathryn Wagner, kmwagner@princeton.edu, (609) 258-2937.



Candace Wildy, Director of Employment Services, Newark Public Schools, talks with attendees our Job Fair and Local Industry Showcase. Several local school districts have openings for chemistry professionals interested in a challenging and rewarding new career in education. Candace also participated in a discussion panel along with Marissa Ames (Project Recruiter, Kean University Transition to Teaching Program), Anita Brandolini (Assistant Professor, William Patterson University) and Bob Cava (Professor, Princeton University) on "A Second Career in Academia and Education".



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