



ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

Jan/Feb 2003

Chairman's Corner

Fiona Case
Colgate-Palmolive

Happy New Year! It is a pleasure, and an honor, to be taking on the role of Chair for the American Chemical Society Princeton Local Section. I must start by thanking Marcel on behalf of all of us, for the great year we had under his leadership. I'd also like to thank him, and the other committee members for all the help they gave me as I prepared to take on this responsibility. As many of you may know, Marcel has accepted an Associate Professorship at the University of Waterloo in Canada. Our Summer Celebration in June will also be a farewell party as he leaves Princeton to take on his new role. Which takes me to our calendar for 2003. We have almost all the meetings planned. They are listed on the additional insert of this edition of Ali"Quotes", which I hope you will display in a prominent position at your place of work (color copies will also be available at the meetings for this purpose). There are several general

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VISIT OUR WEBSITE: <http://www.princeton.edu/~pacs>



Fiona Case presents a Commemorative ACS Past-Chair pin to Marcel Nooijen at the December meeting to recognize his service to the section.

January Meeting

Speaker: **Professor Richard D. Ludescher**
Rutgers University

Topic: Phosphorescence Probes of Molecular
Mobility & Oxygen Diffusion in
Amorphous Biomaterials

Date: Wednesday, January 22, 2003
Lecture at 6 PM
Room 324, Frick Laboratory
Princeton University

Dinner immediately after meeting
Prospect House
Princeton University

The physical properties and especially molecular mobility of amorphous biomaterials (sugars, carbohydrates, and proteins) are important for the shelf-life and stability of dried and frozen foods, food ingredients, and pharmaceuticals, and for the long term viability of bacterial spores, plant seeds,

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themes. One is "local chemistry" as we feature TRI Princeton, the Princeton Plasma Physics Lab, The Chemical Heritage Foundation in Philadelphia, The New Jersey Department of Environmental Protection, and speakers from several local universities and companies. Our Spring and early Summer events have an outdoor/garden theme with talks on soil chemistry, enhancing soil fertility, and the design of herbicides – we plan to have barbeques at these meetings. At the end of summer we take on an environmental chemistry theme with two talks from the NJ DEP. We will also hold a "bring the family" event in September as we ramp up to National Chemistry Week in October and our traditional open house for school children. Naturally the real theme is "things your chairman is interested in" – that is one of the benefits of the position! It is a diverse program. I hope you will all find at least one meeting during the year that is of particular interest to you. I would very much like to increase the percentage of our local section members who participate in our monthly meetings. When you come I would strongly recommend that you stay for dinner. Prospect house is an elegant venue, the food and wine are excellent, and the conversation sparkles.



February Meeting

Speaker: David Brock, Program Manager
Beckman Center for the History of
Chemistry, Chemical Heritage
Foundation Philadelphia
<http://www.chemheritage.org/>

Topic: "Revolutionary Tools: Instruments
and the Transformation of the
Chemical Sciences."

Date: **Wednesday – February 12th**
Lecture at 6 PM
Room 324, Frick Laboratory
Princeton University

Dinner immediately following meeting at
Prospect House
Princeton University

NATIONAL CHEMISTRY WEEK

KITTY WAGNER

A good time was had by all at the National Chemistry Week Open House at Frick Laboratory on October 25, 2002. More than 140 people attending, including about 85 children and several teachers, had the opportunity to do 16 different hands-on activities related to the theme "Chemistry Keeps Us Clean." Among other things, they played with bubbles, experimented with surface tension, surfactants, and emulsions, learned about hair care and oral hygiene, made soap and toothpaste, cleaned water with dirt, figured out the ingredients in ketchup that make it a good penny polish, and developed their own remover for temporary tattoos. Many attended last year. (One boy had two Halloween party invitations and chose the NCW Open House instead!) Most said they wanted to come again next year. That is the best possible testimonial to the efforts of our 32 enthusiastic volunteers: Fiona Case, Barbara Thomas, Marija Heibel, Sukhvinder Sandhu, Shira Lui, Claudio Ortiz, Laurie Welsh, Linda Fraunberger, Bob Bianchini, and Laura Briceno (Colgate-Palmolive); Lynne Greenblatt, Molly Hoke, Thomas Caggiano, Stacey Gove, Schuyler Antane, Jerome Wu, and Soo Yi (Wyeth); Louise Vivona-Miller (PSGA); S. Miller (GPU); and Kevin Lehmann, Martin Case, Rachel Kipp, Howe-Siang Tan, Jia Su, Doug Ho, Carol Rosenfeld, Brian Rissmiller, Elena Hung, Betsy Smith, Perri Pleeter, Ginny Eulo, and Kitty Wagner (Princeton U.). Thanks to all of you! You made the event possible. Special thanks to Fiona Case for organizing the Colgate contingent, to Lynne Greenblatt for acting as photographer, to Ginny Eulo, for sharing her space, and to Alice Ann Fankhauser, for her administrative assistance. ■

and even entire drought-tolerant organisms. Molecular mobility within the amorphous (non-crystalline) solid is largely uncharted: we do not yet have a detailed understanding of how the molecular dynamics of the amorphous matrix modulates chemical reactivity and physical change. This talk will describe our recent work using phosphorescence probes to monitor molecular mobility in amorphous sugars and proteins on the microseconds to seconds time scale and to measure the rate of oxygen diffusion through these amorphous solids. ■

Lectures & Dinner Reservations

Lectures are free and open to the public. The cost of dinner is \$20 per person, including wine (students and retirees, \$10). Reservations are necessary to attend dinner, but not necessary for the lecture. For dinner reservations, please contact Denise D'Auria at (609) 258-5202, denised@princeton.edu.

Dinner reservations must be made by January 15th for the January meeting and February 5th for the February meeting. Please call to cancel your reservations if you cannot attend. **NO-SHOWS WILL BE BILLED FOR THE COST OF THEIR DINNER.** ■

MARK YOUR CALENDAR!

The 2003 MARM is coming to Princeton, New Jersey for the first time.

**American Chemical Society
36th Middle Atlantic Regional Meeting
Hosted By The Trenton Local Section
And the Department of Chemistry
Princeton University, Princeton, New Jersey
June 8-11, 2003**

Elsa Reichmanis, ACS President 2003

Alan MacDiarmid, 2000 Nobel Laureate

Session on Conductive Polymers and
Functional Nanomaterials

Bassam Shakhshiri, University of Wisconsin-Madison

The Joy of Learning and Exhortations of Good Teaching

You are invited to submit abstracts and posters for these and other symposia.

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CHEMJOB'S LAUNCHES FEB. 10, 2003

Chemical & Engineering News Classifieds & Careers Online (Chemjobs) will launch on February 10, 2003. This new "one-stop career shop" combines the features of Jobspectrum.org—for example, resume posting—with the C&EN online classified ads to provide career resources for both job-seekers and employers. ACS members will be able to view the most recent C&EN classified ads that appeared in the print version of the magazine; non-members will be able to view them after two weeks. Chemjobs will be the prime site for "quality jobs and quality chemists" to find each other. Chemjobs will also have an archive of useful career resource information and articles from C&EN and a direct link to ACS Department of Career Services. Stay tuned and log on Feb. 10: <http://www.chemjobs.org>

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US POSTAGE

ADDRESS CORRECTION REQUESTED

American Chemical Society, Princeton Local Section,

2003 Schedule of Events

January Wednesday, 22 nd , 6:00pm	<ul style="list-style-type: none">• Guest Speaker: Prof. Ludescher, Cook College, Dept. of Food Science, Rutgers "Phosphorescence Probes of Molecular Mobility & Oxygen Diffusion in Amorphous Biomaterials"• Fiona Case: Overview of this years' events. Welcome to our new committee• Dinner at Prospect House*
February Wednesday, 12 th , 6:00pm	<ul style="list-style-type: none">• Guest Speaker: David Brock, Program Manager, Beckman Center for the History of Chemistry, Chemical Heritage Foundation Philadelphia. http://www.chemheritage.org/ "Revolutionary Tools: Instruments and the Transformation of the Chemical Sciences."• Awards and Dinner honoring 50 year ACS members, Prospect House*
March Thursday 13 th , 6:00pm – meet at PPPL	<ul style="list-style-type: none">• Princeton Plasma Physics Lab - nuclear chemistry (including tour) http://www.pppl.gov• Dinner at PPPL• please register for this event in advance by contacting Denise D'Auria (denised@princeton.edu) at (609) 258-5202
April Wednesday, 16 th 6:00pm	<ul style="list-style-type: none">• Guest Speaker: Chris Miller, Wyeth "Chemistry in Women's Health, Selective Estrogen Receptor Modulators."• Lynne Greenblatt & Barbara Lences, report from ACS National Meeting in New Orleans• Dinner at Prospect House*
May Thursday 15 th , 6:00pm	<ul style="list-style-type: none">• Guest Speaker: Gail Eaton. President, TRI, Princeton http://www.triprinceton.org/• Trenton section – Invitation to ACS MARM meeting in Princeton• Dinner at Prospect House*
June Thursday, 19 th 5:30 pm,	<ul style="list-style-type: none">• ACS Princeton Section Summer Celebration – Soil Chemistry & Chemistry in the Garden• Satish Myneni, Department of Geosciences, Princeton University• Joseph Heckmann, Department of Plant Biology and Pathology, Rutgers University• Barbecue, Prospect House Garden*
July Wednesday 16 th , 6:00pm	<ul style="list-style-type: none">• Guest Speaker: Nelly Aranibar, Bristol-Myers Squibb "Automatic herbicide mode-of-action determination by NMR and Neural Network analysis"• Barbecue, Prospect House Garden*

August Wednesday, 20 th , 6:00pm	<ul style="list-style-type: none"> • Guest Speaker: James De Noble, NJ Department of Environmental Protection “The major issues concerning environmental mercury and its role as a unique persistent bioaccumulative toxic” • Dinner at Prospect House*
September Wednesday, 17 th , Kresge Auditorium, Frick Chemical Laboratory	<ul style="list-style-type: none"> • Guest Speaker: Anita Brandolini, William Patterson University, NJ. “The Elementary: A Periodic Primer” • An event for the whole family! (bring school age kids) • Kitty Wagner & Andy Bocarsely – recruitment of volunteers for National Chemistry Week • Dinner, Prospect House*
October Wednesday 15 th , 6:00pm	<ul style="list-style-type: none"> • Guest Speaker: Brian Sogorka, New Jersey Department of Environmental Protection, “The NJ DEP Hazardous Waste Site Innovative Technology Program” • Barbara Lences, report from ACS National Meeting in New York • Dinner, Prospect House*
October 19th –25th	<ul style="list-style-type: none"> • National Chemistry Week. Theme: Earth’s Atmosphere and Beyond! (Our major outreach event – www.acs.org/ncw)
November Wednesday 12 th , 6:00pm	<ul style="list-style-type: none"> • Guest Speaker: John Brahms, Colgate Palmolive. "The Chemistry of Body Odor"" • Dinner Prospect House*
December 10 th , 6:00pm	TBD

Dates and times are subject to change. Please check www.princeton.edu/~pacs for further information, including abstracts.

- Note, The cost for dinner is \$20.00 per person, including wine (students and retirees, \$10.00). Reservations are necessary one week in advance to attend dinner, but not necessary for the lecture. For dinner reservations, please contact Denise D'Auria (denised@princeton.edu) at (609) 258-5202.

Unless noted otherwise, meetings are held in the DuPont Seminar Room; 324 Frick Chemical Laboratory