



ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

MAY/JUN 2001

Meeting Announcements

This is the only notice you will receive of the June meeting. Please save it and/or make a note of it in your calendar. Also, please note the change in time. Meeting information can also be found on our web page:

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

May Monthly Meeting

Dr. Frank Guarnieri
Group Head – Bioinformatics and Biophysics
Founder, Locus Discovery
Sarnoff Corporation

**Topic: Experimental & Computational Studies of
Receptor Binding and Activation**

Date: Tuesday, May 22, 2001

**Time & Place: 5:30 p.m. Lecture, Room 124
Frick Chemistry Laboratory
Princeton University
6:45 p.m. Dinner at Prospect House**

Abstract: Peptide hormones mediate physiological activity by binding to a receptor, which transduces an intracellular signal. Mechanistic studies of this process are extremely challenging because of the intrinsic flexibility of these peptides and the dynamism of the receptor.

Current interdisciplinary experimental and computational research concerning the mechanistic issues will be presented.

June Monthly Meeting

Professor Andrew Bocarsly
Department of Chemistry
Princeton University

**Topic: A Chemists Perspective on Modern Fuel Cell
Technology: Are We Ready for Fuel Cells and Are
Fuel Cells Ready for Us?**

Date: Wednesday, June 20, 2001

**Time & Place: 5:30 p.m. Lecture, Room 124
Frick Chemistry Laboratory
Princeton University
6:45 p.m. Dinner at Prospect House**

Abstract: Attention recently has been focused on hydrogen-oxygen fuel cells for applications in transportation and as residential power sources. The primary driver for this interest is the low pollution nature of these systems and the realization that greenhouse gases such as carbon dioxide are negatively impacting our environment. The very recent energy shortfalls have placed greater urgency in this area. Recent effort has been aimed at implementing the H₂-O₂ proton exchange membrane fuel cell (PEMFC). This talk will focus on the current advantages and limitations of this device. Practical considerations will be explored such as the hydrogen storage issue, stability of cell output, and sensitivity to poisoning by hydrogen stream contaminants (i.e. carbon monoxide). The technological and chemical advantages of raising the temperature of the PEMFC fuel cell above the boiling point of water will be considered.

The lecture is free and open to the public. The cost for dinner is \$20.00 per person, including wine (students and retirees, \$10.00). 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 Tuesday, May 15 for the May meeting, and Wednesday, June 13 for the June meeting. Please call to cancel your reservations if you cannot attend. No-shows will be billed for the cost of their dinner.

How time flies. Already I am writing the Chair's column for the months of May and June, which closes out the first half of the year. We are fortunate to have Dr. Frank Guarnieri as our speaker for May. He will be speaking on the nature of signal transduction in biological systems. What makes him unique is that he brings a truly multidisciplinary background to biology by combining experimental and computational techniques. At one point, he held joint positions at Sarnoff Corporation in Princeton and a professorship at the Biophysics Department at Mt. Sinai in New York City. While at Sarnoff, he founded Locus Discovery, a drug discovery company based on a simulation technique he developed to perform *de novo* drug design. In June, Professor Andy Bocarsly will present a talk on the chemistry of fuel cells. Although described as an inorganic chemist, the types of research of his group range from hydrogels to optical materials. He recently has been working with the DOE on establishing a program to explore hydrogen as an energy source, and will be describing some of the work his group has been doing on fuel cell technology. The local section will not meet during the months of July and August. I am in the process of planning the seminars for the Fall; feel free to contact me directly with suggestions for speakers. Have a safe and wonderful summer.

Teacher Workshop to be held May 23, 2001

The Princeton section of the ACS will sponsor a workshop for teachers at Frick Laboratory on Wednesday, May 23, from 7:00 to 9:30 p.m. In keeping with this year's National Chemistry Week theme, the topic will be "Chemistry in Art." We will emphasize hands-on activities and demonstrations that teachers can take back to their classes. We also plan to have an imaging demonstration from Sensors Unlimited. To make this event a success, **we need volunteers** to supervise the hands-on activities. Any necessary training will be provided. **Please help!** If you can participate, please contact **Kitty Wagner**, kmwagner@princeton.edu, 609-258-2937, as soon as possible.

National Chemistry Week Update

Mark your calendars for the Princeton ACS's second annual National Chemistry Week Open House on Friday, November 9. This year's theme is "Chemistry in Art". Children and their parents will have a chance to make the art-chemistry connection through demonstrations and hands-on activities. We will need lots of volunteers. Last year's program was so successful that we may have an even larger crowd this year. (A warning: We will have more space than we had last year, but things are still guaranteed to get messy when you're up to your elbows in fun!)

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CALENDAR OF EVENTS		
May 8	Trenton ACS Awards Night Contact: Helen Tai, htai@earthlink.net, 609-771-4149	Scoozi Hamilton, NJ
May 9	Chemical Consultants Network www.chemconsultants.org (215) 382-1589 or philaACS@aol.com	The Cynwyd Club Bala Cynwyd, PA
May 17	Philadelphia ACS Monthly Meeting Philaacs@aol.com or (215) 382-1589	Rohm and Haas Springhouse, PA
May 17	2001 Aventis Visions in Chemistry Symposium http://www.njacs.org/vic.html	Bridgewater Manor Bridgewater, NJ
May 22	Princeton ACS Monthly Meeting	Princeton University
May 30 - Jun 1	34 th Mid-Atlantic Regional Meeting (MARM) www.towson.edu/chemistry/marm2001/	Towson Univ. Towson, MD
June 12	Chemical Consultants Network - Annual Picnic www.chemconsultants.org (215) 382-1589 or philaACS@aol.com	The Cynwyd Club Bala Cynwyd, PA
June 20	Princeton ACS Monthly Meeting	Princeton University
June 21	Philadelphia ACS Monthly Meeting Attila Pavlath, ACS President Philaacs@aol.com or (215) 382-1589	Morris Arboretum Philadelphia, PA



Princeton Section ACS

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