



ALI "QUOTES"

VOL. 10 No. 4

THE NEWSLETTER OF THE PRINCETON ACS

SEP/OCT 2000

MEETING ANNOUNCEMENT

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

Speaker:	Professor David M. Jonas University of Colorado at Boulder
Topic:	2D electronic spectroscopy: What can we learn from optical analogs of 2D NMR?
Date:	Monday, October 30, 2000
Time:	Dinner: 6:00 p.m., Prospect House Lecture: 8:00 p.m.
Place:	Kresge Auditorium (Room 120) Frick Chemical Laboratory Princeton University, Princeton, NJ

Abstract

Multi-dimensional NMR can selectively simplify spectra to such an extent that NMR can determine protein structures in solution. There is currently great interest in extending 2D spectroscopy to other regions of the spectrum. Our group has demonstrated a new route to 2D optical spectroscopy with femtosecond pulses. 2D femtosecond spectra differ from 2D NMR because inter-atomic distances are "frozen" during the femtosecond pulses. 2D methods push the typically poor frequency resolution of femtosecond spectroscopy to the molecular limit. We have used 2D spectra to provide the first undistorted view of femtosecond solvation in liquids. These solvation processes can control the rate of charge transfer reactions. The 2D spectra clearly show separate signatures of pre-existing thermal motions and subsequent reaction to the new electronic charge distribution. These signatures are consistent with Marcus linear response relations, which also predict the femtosecond time evolution of the 2D spectra. Prospects for two-dimensional femtosecond spectroscopy will be discussed.

*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 **Monday, October 23**. **Please call to cancel your reservations if you cannot attend. No-shows will be billed for the cost of their dinner***

SEPTEMBER MEETING CANCELLED

Due to circumstances beyond our control, the Princeton Section Monthly Meeting in September was cancelled. We hope that this did not inconvenience any members in any way. Hope to see you at the October meeting!

NOMINATIONS SOUGHT FOR PRINCETON SECTION OFFICERS

Nominations for the positions of Chair-Elect and Secretary-Treasurer, 2001 term, are being accepted. The 2001 Chair-Elect will serve as Chair in 2002. Please send your nominations in writing to:

Prof. Marcel Noojien, Secretary-Treasurer
Dept. of Chemistry
Princeton University
Princeton, NJ 08544-1009

Nominations must be received by Friday, October 20. Ballots will be mailed out in November, and election will be held at the December meeting.

CALENDAR OF EVENTS

Oct. 10	ACS Trenton Section Dinner Speaker: Virginia Miller Topic: Research at Rider University and NIST Pete Boughton, (609) 716-2320	Rider University Lawrenceville, NJ
Oct. 11	Chemical Consultants Network Speaker: Donald E. Jost, Ph.D. Topic: Research & Development for the Chemical Industry - Past, Present & Future. www.chemconsultants.org philaACS@aol.com or (215) 382-1589	The Cynwyd Club Bala Cynwyd, PA
Oct. 19	Philadelphia Section ACS Philadelphia Section Award Lecture Dr. Bradford B. Wayland philaACS@aol.com or (215) 382-1589	Univ. of Penn. Philadelphia, PA
Oct. 25	North Jersey ACS Younger Chemists Committee October Alma Mater Social stephen.waller@bms.com	Steak & Ale Restaurant Woodbridge, NJ
Oct. 30	Princeton Section Monthly Meeting	Princeton University
Nov. 5 - 11	NATIONAL CHEMISTRY WEEK Theme: Kitchen Chemistry	

NOMINATIONS REQUESTED FOR THE NATIONAL INVENTORS HALL OF FAME AND THE NATIONAL MEDAL OF TECHNOLOGY

The American Chemical Society (ACS) Committee on Patents and Related Matters (CP&RM) invites you to make suggestions to the Committee on possible candidates for induction into the National Inventors Hall of Fame. The inventor is not required to be a U.S. citizen, but the invention upon which the nomination is based must be covered by a U.S. patent. The invention must have contributed greatly to the national welfare and significantly promoted progress in science and the useful arts. Nomination documents are available at <http://www.invent.org>.

CP&RM also prepares ACS nominations for the National Medal of Technology. Administered by the U.S. Department of Commerce, the National Medal of Technology is awarded to U.S.-owned companies and U.S. citizens for innovation and the advancement of the nation's global competitiveness through the commercialization of technology, the creation of jobs, or improved productivity. Information about the criteria and nomination forms for the Medal are available at <http://www.ta.doc.gov/Medal>.

If you would like to make a recommendation for consideration as an ACS nominee for these prestigious awards, please forward nomination materials to the CP&RM staff liaison Debbie Fillinich, American Chemical Society, 1155 Sixteenth Street, NW, Washington, DC, 20036, call 202/872-4476, or email d_fillinich@acs.org. Nominations are due on March 1.

KIDS & CHEMISTRY! A GREAT COMBINATION!

Have you been asked by your child's teacher to come visit the class and do some hands-on chemistry? Would you like to organize a group of volunteers from your workplace and form a partnership with a local school in order to supplement their science curriculum? The Kids & Chemistry program of the ACS Education and International Activities Division offers workshops and resources to assist volunteer scientists interested in doing hands-on science activities with elementary school children. Workshops are offered at ACS national and

regional meetings, and for local sections, by request. Upcoming workshops include:

October 28, 2000 Puerto Rico Local Section, San Juan
November 11, 2000 Pittsburgh Local Section, Pittsburgh
December 8, 2000 ACS Southeast/Southwest Regional Meeting, New Orleans

If you would like to attend one of these workshops or if you would like more information about the Kids & Chemistry program write to kids@acs.org or call 1-800-227-5558, extension 6249.

2000 OFFICERS / COMMITTEE CHAIRS

Chair: Warren S. Warren Princeton University (609) 258-3910 wwarren@princeton.edu	Secretary / Treasurer: Marcel Nooijen Princeton University (609) 258-3168 nooijen@princeton.edu
Chair-Elect: William Chiang Sarnoff Corporation (609) 734-3222 wchiang@sarnoff.com	Councilor: Barbara Lences Wyeth-Ayerst Research (732) 274-4678 lencesb@war.wyeth.com
Councilor: Rob L'Esperance Princeton University (609) 258-1307 rpl@princeton.edu	Alt. Councilor: Sharon Sibia (609) 520-1288 sibia@erols.com
Alt. Councilor: Kathryn Wagner Princeton University (609) 258-2937 kmwagner@princeton.edu	Newsletter Ed.: Lynne Greenblatt Wyeth-Ayerst Research (732) 274-4549 greenbl1@war.wyeth.com
Webmaster: Jonathan Chun FMC Corp. (609) 951-3145 jonathan_chun@fmc.com	Education: Andrew Bocarsly Princeton University (609) 258-3888 bocarsly@princeton.edu

cd

The **NEW** Chemo Dynamics, L.P.

3 Crossman Road South

Sayreville, New Jersey 08872

Process Discovery, Development, Small Lots Mfg

- Staff increased in number, depth and breadth of skills
- **New cGMP** suites, **New** Analytical Laboratory
- Seven excellent, refurbished synthesis laboratories
- To Serve: **Pharma, Diagnostics, Fine Chemical Needs**

Call Dr. John Arnett, Director – 732-721-4700

FAX: 732-721-6835 - e-mail: info@chemodynamics.com