



ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

May/June 2007

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

Monthly Dinner Meeting

Thursday, May 17, 2007

Guest speaker will be

**Professor Gene S. Hall, Ph.D.,
Rutgers, The State University of New Jersey**

**"Determining Sources of Pb in Tap Water
and Paper Documents: A Detective Story
Using Instrumental Analysis"**

Time: 6:00 PM

Lecture: Frick Laboratory, Room 120

Dinner: Prospect House (following lecture)

Abstract:

Tap water continues to be of major health concern involving high concentrations of Pb. Our laboratory has been involved in developing analytical methods using modern instrumental analysis to determine the sources of Pb in tap water. Specifically we have used inductively coupled plasma mass spectrometry (ICP-MS) to determine the concentrations and isotope ratios of Pb in tap water. The isotope ratios are compared with various plumbing fixtures to determine the source. ICP-MS in combination with XRF is a powerful instrumental method for tap water analysis.

Lead also exists in paper documents such as old stock certificates, paper money, and postage stamps in the form of pigments. Our laboratory has developed non-destructive instrumental methods using ATR-FT-IR, Raman, and XRF to determine the sources of Pb in these paper documents. The source is important for determining authenticity and for conservation purposes.

This seminar will focus on detailed analytical studies using modern instruments to assist in determining the

sources of Pb in tap water and paper documents. In this context, an analytical chemist is a detective who gathers evidence and analyzes the evidence in the form of samples to make conclusions about sources of Pb.

Biography:

Dr. Hall received his B.S from Tusculum College in 1973 and his Ph.D. from Virginia Polytechnic Institute in 1978. He is currently a member of the Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey. Professor Hall's research is concentrated on two major themes. Theme one is bio-analytical chemistry and focuses on the identification and quantification of Pb, Cu, and Zn binding proteins in human biological tissues. A unique analytical method (HPLC-ICPMS) allows the investigation of the effects of Pb speciation on metal binding proteins and Pb toxicity for the first time. The second theme of research is environmental analytical chemistry that focuses on identification of sources of Pb in drinking water.

Reservations

The meeting will be held in 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. All reservations will be billed, for the section pays on the number of reservations, not the number of attendees. Please contact Denise D'Auria at (609) 258-5202 or denised@princeton.edu by Thursday, May 10 to make or cancel reservations.

PROF/CEPA TO HOST SYMPOSIA

Lynne Greenblatt, Councilor for the Princeton Section, is organizing two symposia to be held at the Fall ACS National Meeting this August in Boston. The symposia are sponsored by the Division of Professional Relations (PROF), in conjunction with the Council Committee on Economic and Professional Affairs (CEPA).

Monday, August 20, 2007

8:30 AM to 12 Noon

Age discrimination: Information for the mature chemist

This symposium will include speakers from the EEOC (Equal Employment Opportunity Commission), AARP, Suffolk University School of Law, Boston University Center on Aging & Work/Workplace Flexibility, as well as speakers from prominent Boston law firms that represent both sides in the litigation of age discrimination cases. The symposium will cover topics on age discrimination that will be of value to both employees and employers.

2:00 PM to 5:00 PM

Opportunities in Open Innovation

This symposium deals with intellectual outsourcing, opportunities for retirees in new product development, and co-development activities within the chemical enterprise. Speakers include representatives from Lilly, Solvay, NineSigma, InnoCentive and Southaven Communications.

More information, including abstracts of the talks, will be posted on the meeting website at www.chemistry.org.

Hope to see you there!

Summer Workshops for High School Chemistry Teachers

The American Chemical Society is sponsoring teacher training workshops this summer throughout the country for high school chemistry teachers. Two types of workshops are available: *Chemistry in the Community* and **Advanced High School Chemistry** Teacher Training Workshops. In each workshop, teachers are led by experienced secondary and/or college chemical educators who provide participants with information and tools for teaching inquiry-based learning.

There is a \$50.00 registration fee for each workshop, which includes all materials, meals and on-site housing. The dates and locations appear below.

June 24 - California State University, Northridge, CA
 July 8 - Concordia University, Ann Arbor, MI
 July 8 - Greater Hartford Academy of Math and Science, Hartford, CT
 July 15 - University of St. Thomas, Houston, TX
 August 5 - St. Thomas University, St. Paul, MN

More information, application forms and/or online registration may be found at www.chemistry.org/education (follow the link for workshops and courses).

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News from National ACS

Our councilors, Lynne Greenblatt and Barbara Lences, attended the 233rd ACS National Meeting, Chicago, IL held this past March 25-29, 2007. They report some points of interest

- The Council voted to continue **the Committee on Science, the Women Chemists Committee, and the Younger Chemists Committee** - subject to concurrence by the Board of Directors.
- The Council voted to set the **member dues for 2008** at the fully escalated rate of \$136. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.
- The Society ended 2006 with a **net contribution from operations** of \$12.2 million, on revenues of \$424.0 million and expenses of \$411.9 million, which was \$7.8 million favorable to the approved budget. The favorable variance was primarily attributable to higher-than-budgeted electronic services revenue and investment income, as well as expense savings from lower-than-budgeted health care costs and reduced IT spending. In addition, the Society ended 2006 in full compliance with the Board-established financial guidelines.
- The Council voted to establish **the Snake River Local Section** with headquarters in Boise, ID. This brings the total number of local sections to 190.
- **Member Statistics:** ACS closed 2006 with 160,491 members, the highest year-end membership since 2002. Of the 17,857 applications processed in 2006, more than 1,000 came from the Member-Get-A-Member campaign, in which many councilors participated.
- The Council voted to approve **the Chemical Professional's Code of Conduct** as submitted by the Committee on Economic and Professional Affairs. This document offers guidance for Society members in various professional dealings, especially those involving conflicts of interest.
- The Board of Directors approved a new award: the **ACS Award for Affordable Green Chemistry**, and an endowment to support the award sponsored by the Rohm and Haas Company.
- The Board approved resolutions recognizing the **100th anniversary of the Hungarian Chemical Society and the 150th anniversary of the French Chemical Society**. The French Chemical Society's anniversary will be celebrated in connection with its national meeting and the "C6" meeting, a summit of six large international

chemical societies, in July. The Hungarian Chemical Society will celebrate its anniversary in June.

Section Receives Corporate Support!

We are pleased to announce that **Bristol-Myers Squibb** and **Wyeth Research** have renewed their corporate sponsorships of the section for 2007. Their generous contributions will go toward the funding of our various community activities including Chemagination, our National Chemistry Week Open House and the Outstanding High School Chemistry Teacher Award.

The executive committee of the Princeton section extends a grateful thank you to Bristol-Myers Squibb and Wyeth Research for their continued support.

ACS LAUNCHES ChemInsight™

In response to the growing demand for scientific experts in the legal, accounting and consulting fields, ACS has just launched ChemInsight™ – a scientific experts matching service. Initially, ChemInsight™ plans to offer two services:

- Directory Listing Service, which would promote experts through a free search on ChemInsight.org and through a free print directory distributed to over 60,000 law, forensic accounting and consulting firms;
- Expert Matching Service, whereby ChemInsight™ would contract with law, accounting and consulting firms to conduct a customized search to identify the most relevant experts who best meet their needs.

By helping scientists in chemical and allied sciences gain access to opportunities beyond their core disciplines, ChemInsight™ would enable them to earn additional income and solve challenging problems in a new context, thereby enhancing their visibility beyond the scientific community. This would also help legal, consulting, and accounting firms solve the ever-increasing number of cases and problems involving complex scientific topics.

If you have expertise in a relevant science area, ACS invites you to list with ChemInsight™.

ChemInsight™ is a new initiative of the Office of New Business Development (NBD) of the Society. Thomas Smith serves as the Manager of ChemInsight™. For more information, please visit www.ChemInsight.org

PACS Board Meeting Schedule

The meetings of the Executive Committee of the Princeton Section are as scheduled:

Friday, July 20, 2007
Friday, October 19, 2007

They will be held at Wyeth Research, Monmouth Junction, NJ from 11:30 AM to 1:30PM. The meetings are open to all the membership. If you would like to attend, please contact Lynne Greenblatt at greenbl1@wyeth.com to be added to the list of attendees. Also, if you are interested in helping out on any committee or would like to know more about the program, please contact the committee chair listed on page 2. They would like to hear from you!

PACS Summer Meeting Schedule

The board is busy planning our seminar & dinner meetings for the remainder of the year. There will be a June meeting, but as of the AliQuotes publication deadline, the date had not been finalized.. A separate announcement will be distributed later this month. We will have our annual summer barbecue in July and will be honoring our 50-yr members. There will not be a meeting in August. Please check our website (www.princeton.edu/~pacs) for updates.

39th MID-ATLANTIC REGIONAL MEETING of the AMERICAN CHEMICAL SOCIETY

Ursinus College Collegeville, PA
May 16 – 18, 2007
(Chemagination, May 19)
www.MARMACS.org



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US POSTAGE

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