



ALI "QUOTES"

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THE NEWSLETTER OF THE PRINCETON ACS

May/June 2008

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

Dinner Meeting & Presentation of Outstanding HS Chemistry Teacher Awards

Wednesday, May 21

Our guest speaker will be

**Dr. Thomas Kreutz
Princeton Environmental Institute,
Princeton University**

"Using Fossil Fuels to Power a Carbon-Constrained World"

Time: 6:00 PM

Lecture: Frick Laboratory, Room 120

Dinner: Kalluri Corner (following lecture)

Abstract

Achieving deep reductions in global greenhouse gas emissions during the next few decades will require radical changes in the energy system, on both the demand side – via increased energy efficiency, and on the supply side – via a dramatic increase in "low carbon" energy sources. Because fossil fuels have long been the world's dominant source of primary energy, and their consumption drives global climate change, our research group (the PEI Energy Group) has studied many ways in which fossil fuels might be utilized in the future with greatly reduced CO₂ emissions, primarily through CO₂ capture and storage (CCS) in deep geologic formations. I'll describe strategies for using coal (and biomass) to generate low-CO₂ emission electric power, liquid transportation fuels, synthetic natural gas, and hydrogen as potential energy carriers of the future.

Biography

Dr. Kreutz received B.S. degrees in Chemistry and Physics from Duke University in 1979 and a Ph.D. in

Chemical Physics from Princeton University in 1988. Following post-doctoral and research positions at Columbia University, he returned to Princeton in 1990 as Research Staff Member, Department of Mechanical and Aerospace Engineering. In 1996 he joined the Center for Energy and Environmental Studies. Since 1999, he has been Senior Technical Staff Member, Princeton Environmental Institute. His primary activity is modeling the performance and economics of environmentally friendly, advanced energy conversion systems that have the potential for high efficiency and low emissions of criteria pollutants and/or greenhouse gases.

Reservations:

The meeting will be held in Frick Laboratory, room 120, Princeton University. The seminar is at 6 PM followed immediately by dinner at Kalluri Corner Restaurant, 235 Nassau St. Princeton, NJ. The seminar is free and open to the public. Reservations are required for dinner, which is \$20 for members, and \$10 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, Wednesday, May 14 to make or cancel reservations.



Summer Barbecue and

Recognition of 50 & 60-Year Members

Wednesday, June 4

The guest speaker will be

**Dr. Edward Vicenzi
Smithsonian Institution**

Time: 6:00 PM

Lecture: Frick Laboratory, Room 120

**Dinner: Outside of Frick Laboratory
(following lecture)**

Biography

Dr. Vicenzi received his B.Sc. from McGill University in 1982 and M.S. from University of Oregon in 1985. He was awarded his Ph.D. from Rensselaer Polytechnic Institute in 1991. He is currently a geochemist with the Smithsonian Institution, National Museum of Natural History. He is the Director of Analytical Services in the Department of Mineral Sciences. For more information and a listing of his numerous publications see <http://mineralsciences.si.edu/staff/pages/vicenzi.htm>.

Reservations

The meeting will be held in Frick Laboratory, room 120, Princeton University. The seminar is at 6 PM followed immediately by dinner on the lawn outside of Frick Laboratory (weather permitting). The seminar is free and open to the public. Reservations are required for dinner, which is \$20 for members, and \$10 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, Wednesday, May 28 to make or cancel reservations.



News from the 235th ACS National Meeting

Some highlights and statistics of interest from the ACS Council, Board of Directors and Committees:

ACTIONS OF THE COUNCIL

- Joseph S. Francisco and Josef Michl were elected to stand as candidates for 2009 President-Elect in the Fall National Elections.
- The Council voted to approve the Petition on Election Procedures for President-Elect and District Director. This petition seeks to make the balloting procedure more uniform and to avoid the complications and expense of run-off elections.
- Following a lively debate, the Council ultimately voted to approve the Petition on Election Procedures 2006, Part 2. This petition standardizes election processes for President-Elect and all Director positions based on percentages of voting members. The net effect of these changes will be to increase the number of required signatures for petition candidates from the current 300 to about 750 for President-Elect, and from 300 to 350 for Director (based on current membership.)
- The Council also debated the merits of the Petition on Membership Categories and Requirements and ultimately approved it. This petition broadens qualifications for membership and creates a new

category of *student membership*, which would replace that of student affiliates.

The Board of Directors will vote within 90 days on whether to ratify the approved petitions. The Petition on Membership Categories and Requirements contains changes to the ACS Constitution, and not just the Bylaws. Therefore, to be valid, these changes must be approved by ACS members in the fall.

- The Council also voted to approve the Academic Professional Guidelines as submitted by the Committee on Economic and Professional Affairs. These guidelines apply to those members of the academic community whose job function impacts directly or indirectly on scientists practicing the profession of chemistry. All of the Professional Guidelines can be found at acs.org. Look under: [Home](#) > [Careers](#) > [Ethics & Professional Guidelines](#).

Other Items of Interest

- Member dues for 2009 will increase to \$140 (based on an inflation-adjustment formula.)
- The Society ended 2007 with a net from operations of \$9.6 million, which was \$2.2 million favorable to the approved budget. This was based on total revenues of \$444.2 million and total expenses of \$434.6 million.
- As of April 9, 2008, the ACS spring national meeting had attracted 13,302 registrants as follows: Regular attendees 6,681; Students 4,659; Exhibitors 1,156; Exposition only 374; and Guests 432.
- At the close of 2007, Society membership totaled 160,052, despite a net loss of 439 members at the end of the year. Also, 2007 recorded the second highest number of new applications – 16,533.

ACTIONS OF THE BOARD OF DIRECTORS

- On the recommendation of the Committee on Public Affairs and Public Relations, the Board voted to approve the tagline "*Chemistry for Life*" as the central theme of the Communications Strategic Plan and for use on appropriate Society materials.
- On the recommendation of the Committee on Professional and Member Relations, the Board voted to adopt the ACS Diversity Partners Program – a three-year pilot program designed to broaden participation in the chemical sciences among diverse and traditionally underrepresented groups.
- On the recommendation of the Committee on Budget and Finance, the Board voted to support having the Committee on Education (SOCED) pursue the US hosting of the International Chemistry Olympiad in 2012.



NJSSI Needs You!

Our section Government Affairs Committee has learned from the 'Friends of NJSSI' that funding for NJSSI, a statewide initiative to improve science, mathematics and technology education for all New Jersey students, has been cut from the 2009 budget. In response, the Friends have launched a petition campaign and are asking NJ citizens, and our members in particular, to send a letter or email to their State Legislators urging them to restore funding for this important initiative. You can find contact information for your legislators at www.njleg.state.nj.us/members/legsearch.asp.

You can also visit <http://njssi.rutgers.edu>. This is the NJ SSI Home Page, which will have specific information for "Friends of NJ SSI" and a link to their online petition that will be operational shortly.

For 15 years NJ SSI ...

- * Has helped school districts raise student achievement scores on state assessments 28%, double the rate of students in other districts of comparable socio-economic status who did not work with NJ SSI.
- * Has impacted 85% of New Jersey's schools including all the Abbott districts
- * Has reached 49,852 teachers and administrators of mathematics and science
- * Has assisted over 2,000 schools in implementing new or revised standards-based curricula in mathematics, science and technology.

* * Has helped prepare students for careers in Science, Technology, and Engineering, which is crucial to New Jersey's Hi-Tech industry.

* Has attracted \$28,709,127 in external funding from a variety of sources by leveraging the State appropriation.

Job Posting: Wondergy

WE NEED YOU for Science Educational Outreach. Blow stuff up, freeze stuff, shock small children, play with powerful lasers, and generally convince people that the world is a great toy.

Based at 36th & Market, Wondergy develops and presents educational and entertaining science programs that get kids and adults excited about learning and the workings of the world around them. Help us change someone's worldview - and in turn the whole world. While many events are near Philly, we are expanding north with opportunities available in the tri-state area and beyond. This job may also offer opportunities for inter-national travel. Last year we did 40 shows in India. Jobs are available immediately and will include the summer. Auditions are being held now!

Contact careers@wondergy.com to schedule your audition - come teach us something! For more information see: www.wondergy.com



🕒 CALENDAR OF EVENTS 🕒

Wednesday, May 21: Princeton ACS dinner meeting. Our speaker will be Dr. Thomas Kreutz, Princeton University, Princeton Environmental Institute.

Wednesday, June 4: Princeton ACS dinner meeting and summer barbecue. Our speaker will be Dr. Edward Vicenzi

September 15-16: TRI/Princeton will be hosting the **Third International Conference on Applied Hair Science** Princeton, NJ. *Call for Papers*: TRI/Princeton requests submissions on hair science and its applications for oral presentations, technical papers, and poster presentations. Several topics will be highlighted at the Third International Conference on Applied Hair Science, including chemical, physical, and surface properties of hair; measurement of consumer-desired attributes such as luster, body, and smoothness; fundamental mechanisms of hair damage and its prevention; ethnic hair studies; and product efficacy, as well as numerous others. Abstracts for oral and poster presentations must be submitted by March 2nd, 2008. Interested applicants should email their abstracts to the Conference Organizer at info@triprinceton.org or complete the Abstract Submission Form on the conference website (<http://www.triprinceton.org/hair2008>).

The PACS Executive Committee will meet July 18 and October 17 at Wyeth Research, Monmouth Junction from 11:30AM – 1:30PM. Interested Princeton ACS members are welcome to attend. Contact Lynne Greenblatt greenbl@wyeth.com to make a reservation.

MARM 2008

Queensborough Community College, Bayside, NY 11364
May 17-21, 2008

The 40th Middle Atlantic Regional Meeting (MARM 2008) of the American Chemical Society will be held from Saturday, May 17 to Wednesday, May 21, 2008. Hosted by the New York Local Section, the meeting will take place at Queensborough Community College of the City University of New York, Bayside (Queens), New York. Many symposia and events are planned around the theme of Chemistry and Health, reflecting the importance and impact of the health sciences in the New York metropolitan area. The meeting will also feature exciting plenary lectures by Ronald Breslow of Columbia University, *The Invention of SAHA, an Approved Anticancer Medicine with a Novel Mechanism of Action*, and Roald Hoffmann of Cornell University, *The Chemical Imagination at Work in Very Tight Places*.

Programming for students and teachers is scheduled for Saturday and Sunday, May 17 and 18, beginning with the 56th NY-ACS Undergraduate Research Symposium (URS) on May 17. Students who make oral presentations at the URS will be given free registration to MARM! Chemagination and Project SEED poster sessions, as well as activities planned by the Student Affiliates chapter of St. John's University are also scheduled. Chemical educators are invited to attend the free POGIL workshop, the NY Section Nichols Teacher forum, probeware workshops, and chemical demonstrations.

For further information check their website at www.marmacs.org.



Princeton Section ACS

Department of Chemistry
Princeton University
Princeton, NJ 08544-1009

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