Philadelphia Section Award
Dr. Robert J. Levis
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November 12-15, 2007

46th Eastern Analytical Symposium & Exhibition

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Somerset, New Jersey

www.eas.org
# Advance Notice

## November Meeting

**Ulyot Lecture**  
**Dr. Shirley M. Tilghman**  
President, Princeton University

**NOTE THE DATE: THURSDAY, November 1st, 2007**

See pages 139 and 141 in THIS issue of *the Catalyst* for details, call the Section Office at (215) 382-1589, email PhilaACS@aol.com or check our website: http://membership.acs.org/p/philadelphia

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Happy October! First, I wanted to mention that in the September Catalyst, we noted that Dr. Chris L. Whittle, our September speaker, is currently working as a Post-Doctoral Fellow at Monell Chemical Senses Center located in Philadelphia, Pennsylvania, under the excellent mentorship of George Preti. However, we failed to add three important letters, PhD, to the end of George’s name (see page 140). I know he worked very hard to earn them and I just wanted to set the record straight. Sorry George!

This October Catalyst actually has meeting information for both the Section Award Meeting in October and Ulliyot Lecture in November since the latter will be occurring early in November. Please make sure to read about both meetings and make plans to attend.

We will also be celebrating National Chemistry week soon, so check the Catalyst and Section website for more information. If you can help with these events, contact our NCW chair, Judy Summers-Gates, at jsummers@fda.hhs.gov.

THOUGHTS TO PONDER

How far you go in life depends on your being tender with the young, compassionate with the aged, sympathetic with the striving, and tolerant of the weak and the strong. Because someday in life you will have been all of these.—George Washington Carver

The inherent vice of capitalism is the unequal sharing of the blessings. The inherent blessing of socialism is the equal sharing of misery.—Winston Churchill

I don't make jokes. I just watch the government and report the facts.—Will Rogers

NEWS ATOMS

John Vohs, the Carl V.S. Patterson professor and chair of the department of chemical and biomolecular engineering at the University of Pennsylvania, received the 2007 Catalysis Club of Philadelphia award. The honor recognizes contributions to the advancement of catalysis, specifically his pioneering work in the application of surface science techniques on metal oxide single crystals.

Katherine A. Bakeev, a principal scientist with GlaxoSmithKline, will receive the 2007 Craver Award in applied vibrational spectroscopy. The award is sponsored by the Coblentz Society and recognizes molecular spectroscopists under the age of 45.

The American Chemical Society announced the following 2008 national awards, to be bestowed at the ACS spring meeting next April in New Orleans. Magid Abou-Gharbia of Wyeth Pharmaceuticals will receive the Alfred Burger award in medicinal chemistry, sponsored by GlaxoSmithKline. The Peter Debye award in physical chemistry, sponsored by E. I. du Pont de Nemours & Co. goes to Michael Klein of the University of Pennsylvania. Also at Penn, William F. DeGrado will receive the Ralph F. Hirschmann award in peptide chemistry, sponsored by Merck Research Laboratories.

DEATHS

Oliver S. Sprout, Jr., retired senior chemist formerly with Pennwalt Corp., June 27th at 91. His entire career was spent at Pennwalt and he retired in 1981. Sprout authored numerous technical papers and was author or co-author of 18 US and foreign patents. He held membership in technical associations of the paper, textile, and dairy industries and was a 70-year emeritus member of ACS. He served as a consultant during the establishment of the Philadelphia Poison Control Center.

Thomas E. Deger, retired research chemist formerly with Pennwalt, July 13th at 95. He joined the Sharples Solvents Corp. and was named assistant research director in 1944. After Sharples merged with Pennwalt in
1952 he transferred to the Whitemarsh laboratories and became director of organic research in 1956.

Pennwalt’s technical division moved to King of Prussia in 1963 where Deger was appointed manager of administration, information, and services. He retired in 1976 after 43 years of service. He authored or co-authored 20 patents and was a 76-year member of ACS.

Lee Friedman, retired chemical engineer, July 31st at 89. He worked for Phillips Petroleum and then joined the US Navy in 1943 where he became an engineering officer, landing troops and tanks on Normandy beach on D-Day. He then joined Houdry Air Products & Chemicals where he traveled worldwide to oversee construction and renovation of chemical plants. After retiring he was appointed to Governor Thornburgh’s Commission on Environmental Action.

**CHEMICAL CONSULTANTS NETWORK**

Visit our web page at www.chemconsultants.org

**Date & Time:** Wednesday, October 10th at the Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

**Speaker and Topic:** Markley S. Roderick, Esq., *Legal Issues that Every Consultant Needs to Know.*

**Abstract:** Various issues and options of interest to most small businesses, particularly consulting practices, including incorporation, taxes, contracts and liability, will be discussed.

**Location:** The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004.

**Reservation:** To make or cancel a dinner reservation, e-mail CCNReservations@aol.com or call the ACS office at 215-382-1589. Fee, including food and beverages, is $35. Early Bird discount price is $25 if reserved by Thursday, October 4th. Late reservations and walk-ins subject to availability. No-shows will be invoiced.

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presents the

2007 PHILADELPHIA SECTION AWARD

to

Dr. Robert J. Levis

Department of Chemistry
and Center for Advanced Photonics Research
Temple University

Strong Field Chemistry: From Photonic Reagents
to Standoff Detection

Thursday, October 18th
6:00 PM
Room 162 Beury Hall, Temple University
1901 North 13th Street
Philadelphia, PA 19122

Social Hour: 5:00-6:00 PM in Beury Hall 130
Dinner following the lecture in the President's Room, Diamond Club, Mitten Hall

Dinner Cost: $25.00; Students with reservations and ID: $13.00

DINNER RESERVATIONS should be made by calling Mrs. Libby Harper at the Section Office, (215) 382-1589, or emailing PhilaACS@aol.com by 5:00 PM Thursday, October 11th. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, October 16th. UNCANCELLED RESERVATIONS WILL BE BILLED.

PARKING: Parking is available for $10 in lot #1 between 15th and Broad Street, south of Norris Street. For map and directions, see www.temple.edu/maps/

The Board of Directors will meet at 4:00 PM in room 226, Beury Hall (second floor conference room).
The 2007 Ullyot Public Affairs Lecture

sponsored by

The Philadelphia and Delaware Sections of the American Chemical Society
The Department of Chemistry of the University of Pennsylvania
The University of the Sciences in Philadelphia
The Chemical Heritage Foundation

Dr. Shirley M. Tilghman
President, Princeton University

Strategy or Happenstance: Science Policy in the USA

Thursday, November 1st
6:00 PM
Ullyot Meeting Hall, Chemical Heritage Foundation
315 Chestnut Street
Philadelphia, PA

The lecture is FREE to the public, but registration is required.

Reception from 7:00-8:00 PM (free with reservation).

For Lecture registration and Reception reservations register online at www.chemheritage.org or contact Jennifer McCafferty at the Chemical Heritage Foundation, (215) 873-8202 or jmccafferty@chemheritage.org, on or before October 19th. Self-guided tours of the fourth floor gallery will be available during the reception (The Whole of Nature and the Mirror of Art, images of alchemy from the Roy G. Neville historical chemical library and Transmutations, an exhibit featuring selections from the Eddleman and Fisher Collections of alchemical art).

PARKING: Reduced rate parking ($6) with validation stamp from the Chemical Heritage Foundation is based on availability at the Bourse Garage on 4th Street between Chestnut and Market Streets (next to the Ritz Theater). Parking is also available at the garages under Independence Mall between 5th and 6th Streets, and at 2nd and Walnut. Public Transit: SEPTA suburban trains stop at Market East, 11th and Market Streets, a 15-minute walk to the Chemical Heritage Foundation. The Market-Frankford subway has stations on Market Street at both 2nd and 5th Streets.

The Board of Directors will meet at 4:00 PM in the Gerstacker Board Room at the Chemical Heritage Foundation.
SPEAKER'S ABSTRACT AND BIOGRAPHY

Strong Field Chemistry: From Photonic Reagents to Standoff Detection

Dr. Robert J. Levis
Department of Chemistry and Center for Advanced Photonics Research, Temple University

Abstract: The ability to create ultra-intense radiation pulses using femtosecond laser technology has opened the door to reprogramming the Hamiltonian of any molecule. Put another way, since the interplay of electrons and protons in a molecule controls chemical reactivity, these intense laser pulses have allowed us to control chemical reactions. The ability to tailor the shape of the “strong field” laser pulse has further enabled the production of designer photonic reagents. I will review our progress in understanding strong field chemistry (from nonadiabatic dynamics to dimensionality reduction) and will present some applications of the technology as well as prospects for analytical chemistry at distances up to 1 km.

Biography: Robert J. Levis is a professor and chair of the Department of Chemistry at Temple University, as well as director of Temple’s Center for Advanced Photonics Research. He received his BA from La Salle University in 1984 and PhD from the Pennsylvania State University in 1988 under the tutelage of Nicholas Winograd and Greg Geoffroy. He then took a postdoctoral associate position with Stephen Leone at the Joint Institute for Laboratory Astrophysics at the University of Colorado, Boulder. He started his independent academic career at the Wayne State University in 1990 and served for 13 years before joining Temple.

Dr. Levis pioneered the area of strong field chemistry, the use of ultrafast and intense lasers to modify, manipulate and detect virtually any molecular system. This work employs lasers having electric field strength of magnitude equal to the forces binding atoms into molecules to reprogram specific characteristics of molecules. His recent work combines strong laser fields with adaptive control to develop novel photonic chemistries and sensing technologies. This research has applications in the development of new rocket propellants, point detection of chemical warfare agents, standoff detection of improvised explosive devices, developing novel materials processing methods, such as in nanomaterials and carbon fibers, and in biophotonics, such as prodrug manipulation and photonic enzymes.

He has published over 60 refereed articles and presented over 150 invited talks, both nationally and internationally, and holds two US patents, for “A Method for Analyzing an Organic Sample,” and “Vaporization and Sequencing of Nucleic Acids.” Current grants include three funded by the Army Research Office, “Laser Pulse Shaping for Remote Detection of Explosives,” “Fast Laser Pulse Shaping for Molecular Control,” and “Optimal Quantum Dynamic Discrimination of Chemical and Biological Agents” as well as “Strong Field Chemistry,” funded by the National Science Foundation, and “Photonic Reagents: The Production of Cyclic Ozone,” funded by the Air Force Office for Scientific Research.

Dr. Levis is a fellow of the American Physical Society and an Alfred P. Sloan Research Fellow. He received the Wayne State University Teaching Award in 2002 and the Camille Dreyfus Teacher-Scholar Award in 1995. He was also the recipient of an NSF Young Investigator Award and an NIH Research Career Development Award.

ERRATUM

In the September issue the last line of Chris Whittle’s biography should have read: “Under the excellent mentorship of George Preti, PhD, I am investigating a rare genetic metabolic disease in humans – Trimethylaminuria.”
SPEAKER'S BIOGRAPHY

Dr. Shirley M. Tilghman
President, Princeton University

Tilghman became Princeton University’s 19th president in June 2001. An exceptional teacher, a world-renowned scholar, and a leader in the field of molecular biology, she served on the Princeton faculty for 15 years before being named president.

Tilghman received her Honors BSc in chemistry from Queen’s University in Kingston, Ontario, in 1968 and her PhD in biochemistry from Temple University in Philadelphia.

During postdoctoral studies at the National Institutes of Health she made a number of groundbreaking discoveries while participating in cloning the first mammalian gene. She continued to make scientific breakthroughs as an independent investigator at the Institute for Cancer Research in Philadelphia and as an adjunct associate professor of human genetics and biochemistry and biophysics at the University of Pennsylvania.

Tilghman came to Princeton in 1986 as the Howard A. Prior Professor of the Life Sciences. Two years later she joined the Howard Hughes Medical Institute as an investigator. In 1998 she took on additional responsibilities as the founding director of Princeton’s multi-disciplinary Lewis-Sigler Institute for Integrative Genomics.

A member of the National Research Council’s committee that set the blueprint for the US effort in the Human Genome Project, Tilghman was also one of the founding members of the National Advisory Council of the Human Genome Project Initiative for the National Institutes of Health.

From 1993 through 2000 Tilghman chaired Princeton’s Council on Science and Technology, which encourages the teaching of science and technology to students outside the sciences, and in 1996 she received Princeton’s President’s Award for Distinguished Teaching. In 2002 Tilghman was one of the five winners of the L’Oreal-UNESCO Award for Women in Science and the following year received the Lifetime Achievement Award from the Society of Developmental Biology.

Tilghman is a member of the American Philosophical Society, the National Academy of Sciences, the Institute of Medicine, and the Royal Society of London. She serves as a Trustee of the Jackson Laboratory and the Carnegie Endowment for International Peace.

CELEBRATE THE 20TH ANNIVERSARY OF NATIONAL CHEMISTRY WEEK

This year’s celebration of National Chemistry Week, with the theme, “The Many Faces of Chemistry,” will be a very special celebration! 2007 marks the 20th anniversary of NCW. The mission of NCW is to reach the public, particularly students, with positive messages about chemistry and to provide a means of effectively mobilizing ACS local sections.

When former ACS President, George Pimentel, conceived the idea of celebrating National Chemistry Day in 1987, he never could have predicted where his idea would lead. From a one-day celebration, National Chemistry Day grew into National Chemistry Week. From a biennial celebration, the celebration became an annual event in 1993. The program has been the recipient of several prestigious public relations and association awards.

Join with ACS this October 21-27, in this 20th anniversary year of National Chemistry Week to celebrate “The Many Faces of Chemistry,” emphasizing the diversity of the discipline and its practitioners.
NEW ACS PODCAST DEBUTS

The American Chemical Society (ACS) Office of Communications has launched a podcast that will make cutting-edge scientific discoveries from ACS journals available to a broad public audience at no charge.

The podcast, *Science Elements*, (http://chemistry.org/science_elements.html) describes research reported in ACS’s prestigious suite of 35 peer-reviewed scientific journals and *Chemical & Engineering News*, ACS’s weekly news magazine. Those journals, published by the world’s largest scientific society, contain about 30,000 scientific reports from scientists around the world each year. The reports include discoveries in medicine, health, nutrition, energy, the environment and other fields that span science’s horizons from astronomy to zoology.

Those discoveries improve peoples’ lives, and *Science Elements* will make that information more widely available. The podcast draws on an Office of Communications product, PressPac, which initially was developed to assist science journalists in researching and reporting news.

The podcaster for *Science Elements* is Steve Showalter, PhD, a chemist at the US Department of Energy’s Sandia National Laboratories in Albuquerque, NM. Showalter’s work at Sandia focuses on the design and development of new batteries. “As an active member of the ACS since 1987, I view these podcasts as part of a broader commitment to improving public understanding of chemistry,” Showalter said.

Podcasting is an increasingly popular way of accessing news, information, and entertainment content from the Internet. The term was derived from Apple’s “iPod,” a portable digital audio and video player, and “broadcasting.” Podcasts allow users to subscribe to a “feed” and receive new files automatically whenever posted to the Internet. New installments of *Science Elements* will be posted weekly and available without charge.
BOSTON COUNCIL MEETING

Tony Addison

ACS Council met on Wednesday, August 22nd in Boston. The total Boston meeting attendance was 15,344, of whom 23% were students.

Compared to the enjoyable drama of the spring meeting, this was a relatively unexciting session.

Council elected several new members to committees of the Council: K.B. Anderson, L. Barton, L.A. Dulany, L.K. Krannich and W.E. Lynch to the Committee on Committees (that name always amuses me) for 2008-2010; M.V. Orna, D.J. Phillips, Y.E. Rhodes, K.M. Schultz to the Council Policy Committee, and F.D. Blum, C.A. Duane, R.A. Hathaway, A.M. Sarquis and P.J. Shapiro to the committee on Nominations and Elections (an assignment of ever increasing interest!). Orna and Rhodes are in our Mid-Atlantic Region. Membership will choose between Thomas H. Lane (Dow Corning) and Howard M. Peters (Peters/Verny, LLP) for President-Elect, 2008. Bonnie Lawlor (NFAIS, Philadelphia) is running for a Director-at-Large post.

A draft petition on Election Procedures for President-Elect and District Director was presented as information to Council. It is expected that this petition will be refined and presented for a Council vote in New Orleans in the spring. The essence of the petition is that it proposes a method for electing the above officers in cases where there are multiple candidates, in a fashion that does not require costly multiple mail ballots, as is the present case. I am a supporter of this petition.

The Committee on Economic and Professional Affairs presented a draft of its latest revision of the Academic Professional Guidelines. These describe what is expected of the behavior of academic faculty, and of their institutions in providing an appropriate environment for teaching, learning and professional development.

The Javits Center in New York City will not be able to accommodate the 2012 Fall National Meeting, so this is being moved to Philadelphia! Don’t forget, that we have the 2008 fall meeting coming up in Philly as well. The 2008 MARM will be in Queens, NY.

After the Council meeting, we gathered most of our Section Councilors together for a picture (below), with ACS President Dr. Katie Hunt, of the Philadelphia Section.

Philadelphia Section members at the Boston national meeting in August. L. to r.: John Nikelly and John Crawford, councilors; Judith Currano, alternate councilor; Madeleine Joullié, District III director; Katie Hunt, ACS President; Tony Addison, Sharon Haynie and Deborah Cook, councilors. *photo provided by T. Addison*
Green Polymers: Materials, Processes and Products
1:00 PM to 6:30 PM, November 8th, 2007
Fiber Optics Materials Research Auditorium at Rutgers University,
Busch Campus, Piscataway, NJ

Organized by NJACS Polymer Topical Group

**Session I:** Green Polymers: Materials and Processes, Michael Jaffe, presiding
*The Future of Polymers and the Environment: Opportunities at the Molecular Level*, John C. Warner (UMass Lowell)
*Synthetic Absorbable Polymers*, Dennis Jamiolkowski, (INJ)
*The Preparation and Application of Highly Modified Starches*, John S. Thomaides (ICI), L. Cimecioglu (ICI), K. Rodrigues (Alco) and M. Crossman (Alco)
*Polyolefins - They're Greener than You Think*, D. J. Lohse, D. N.Schulz (ExxonMobil)

**Session II:** Green Polymers: Product Application Approaches, Ron DeMartino, presiding
*Polymers in High Performance Construction Materials*, Charlene Wall (BASF)
*Polymers for Printing Inks: A Green History*, Richard Durand (Sun)
*Green Polymers in Cosmetics*, Karl Krummel (L'Oreal)

**Poster Session**
Jin Zhang and Jinjiang Li, co-organizers and presiding

**Mixer**

**Website:** More information and a download of the registration form can be found at http://njacspolymers.org/

**Registration:** Advance fee is required: ACS Member, $30; Non-member; $40; Student, $20. After October 24, 2007: Member, $35; Non-member; $45; Student, $25.

**Directions:** Can be found at http://maps.rutgers.edu/pdf/busch.pdf (building G3 on map)

**Poster Submission:** Please send Title, abstract and contact information to Jin Zhang jin.zhang@bms.com. If you are from academia, large corporations or local businesses, this is a good opportunity for you to showcase your research, network with other people and contact possible employers and clients. In addition to topics on green polymers, we are looking for poster submissions in polymer research in diverse areas, such as polymers in health care, advanced polymer materials, polymer characterization etc.

Please note abstracts will be 400 words or less. No tables and graphics. The size of the poster board is 5’2” wide and 3’2” high. All poster abstracts must be received by October 24th, 2007.

**Sponsors:** ExxonMobil, Apollo Ventures, LLC.

**Co-sponsors:** ACS Division of Polymer Chemistry.

**Endorsing Organizations:** ACS Green Chemistry Institute, AIChE North Jersey Local Section, CUNY Center for Engineered Polymeric Materials, Lehigh Center for Polymer Science and Engineering, NJIT Medical Device Concept Laboratory, Princeton Center for Complex Materials.
RECOGNIZING PREMIER CHEMICAL PROFESSIONALS

The American Chemical Society (ACS) is proud to be the association of choice for a diverse community of highly-skilled chemical professionals empowered to excel in their careers and dedicated to improving the quality of life. The ACS Awards Program is one of the means by which the Society meets its obligation “to encourage...the advancement of chemistry in all its branches, the promotion of research in chemical science and industry, [and] the improvement of the qualifications and usefulness of chemists.”

The ACS national awards recognize individual or team accomplishments in diverse fields of the chemical sciences from Analytical Chemistry to Environmental Science, from Organic Chemistry to Polymer and Material Science, from Diversity and Emerging Chemists to Interdisciplinary Science, from Medicinal and Pharmaceutical Science to Chemical Education and more.

The continuing excellence of the ACS awards program requires that a number of highly qualified chemistry professionals be nominated. To assure that no outstanding nominee is overlooked, the Society urges you to submit nominations for the national awards administered by the ACS to be presented in 2009.

Forms for nominations and supporting information, and a detailed description of ACS national awards are available at http://chemistry.org/awards. The deadline date for all nominating material for 2009 ACS Awards is November 1, 2007. Earlier transmittal is encouraged.
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- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several websites that may help you search for these open positions.

- www.mboservices.net/recr_disp.php
- http://membership.acs.org/p/philadelphia/jobs
- http://www.chemistry.org/portal/a/c/s/1/career.html?DOC=careers%5Cindex.html

CAREER DEVELOPMENT

Being a part of our teams can help you develop organizational and meeting skills as well as help you to network with people from the largest area companies. Public Relations, such as sending out meeting notices and press releases, can help you to develop a network and help you get noticed!

All committees are looking for new members and several are looking for “take charge” chairs. Some, like the Teller’s Committee, involve minimal work—one night per year and pizza provided. Others, like positions on Publications or Social Committees, involve one or two hours per month.

Committee details can be found at:
http://www.membership.acs.org/p/philadelphia

or by calling Mrs. Libby Harper at the Philadelphia section office
215-382-1589.

Directory of Services

Advertising: Vince Gale, MBO Services, P.O. Box 1150, Marshfield, MA 02050, phone (781) 837-0424, fax (781) 837-1453, email: cust-svc@mboservices.net.

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October 2007
### PHILADELPHIA SECTION, ACS 2007-2008 CALENDAR OF EVENTS

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### 2008

| Jan. 24    | Eighth Graduate and Third Undergraduate Poster Sessions                | Temple University Philadelphia, PA |
| Mar. 16-21 | NOBCChE National Meeting                                               | Philadelphia, PA                   |
| April 6-10 | ACS Spring National Meeting                                            | New Orleans, LA                    |
| May 18-21  | Middle Atlantic Regional Meeting (MARM)                                | Queensborough Community Coll. New York |
| Aug. 17-21 | ACS Fall National Meeting                                              | Philadelphia, PA                   |