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# *the Catalyst*

ISSN 0008-767X



November-December 2007



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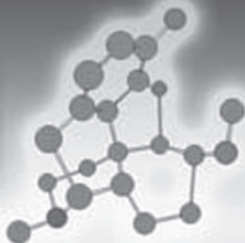


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# *the Catalyst*

Official Publication of the Philadelphia Section, American Chemical Society

Founded April 15, 1899

Volume 92, No. 9

November-December 2007

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## STATEMENT OF OWNERSHIP AND MANAGEMENT

In accordance with the United States Code of Post Office Regulations, Act of August 12, 1970; Section 3685, Title 39, a Statement of Ownership and Management was filed on September 30<sup>th</sup>, 2007 for *the Catalyst*, published monthly except July, August and December, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323, and the owner is the Philadelphia Section, American Chemical Society, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323, there being no stockholders in this non-profit corporation. Elisabeth H. Harper, Administrative Secretary, September 30<sup>th</sup>, 2007.

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](mailto:cust-svc@mboservices.net).

Printed by Priestley Printers, Philadelphia, PA (215) 665-0515

## ADVANCE NOTICE

### JANUARY MEETING

**Graduate and Undergraduate Poster Session  
Temple University**

**THURSDAY, January 24<sup>th</sup>, 2008  
(Note Fourth Thursday)**

See the January *Catalyst* for details,  
call the Section Office at (215) 382-1589, email [PhilaACS@aol.com](mailto:PhilaACS@aol.com)

## From The Chair

### David Cichowicz



Well, we have reached the end. This is the last column I will be writing as Chair of the Philadelphia Section. The year seemed to fly by, but the Section managed to host many worthwhile events and I want to thank each person who helped to make this year a success. I also want to thank Rohm & Haas for their sponsorship of the family night at the Elmwood Park Zoo in Norristown.

The last Section meeting of the year will be the annual Herb Bassow Chemical Demonstrations. This year it will be held at La Salle University on Saturday December 8<sup>th</sup>. Details can be found elsewhere in this issue of *the Catalyst*.

Finally, I would like to request some help for next year. It is the responsibility of the Past Chair to nominate the candidates to run for the Section's elected positions. Next year we will be electing a Chair-Elect, a Treasurer, at least five Directors, four Councilors and four Alternate Councilors. If you would like to run for one of these positions or would like to suggest someone, please contact me. If you want more information about what each of these positions entails, contact either the Section Office at [philaACS@aol.com](mailto:philaACS@aol.com) or me at [cichowicz@lasalle.edu](mailto:cichowicz@lasalle.edu).

Have a wonderful holiday season and thanks for all your help!



## NEWS ATOMS

**Mark McDonald** was appointed vice president of sales and marketing for Chiral Technologies.

**Magid Abou-Gharbia**, senior vice president at Wyeth, received the Chemical Pioneer award of the American Institute of Chemists. He was recognized for his work in medicinal chemistry research.

The ACS division of medicinal chemistry inducted its inaugural class of Hall of Fame honorees at the Fall meeting. Five of the individuals were affiliated with Merck Research Laboratories including **James Sprague**, **Ralph Hirschmann**, **Paul Anderson**, **John J. Baldwin**, and **Joel Huff**.

## DEATHS

**Kenneth F. King**, retired organic chemist formerly with DuPont, January 22<sup>nd</sup> at 78. He worked in the field of elastomers at DuPont from 1958 to 1986, and then served as a consultant for several companies. He obtained 13 patents.

**James Walter Carroll, Sr.**, retired Pennwalt employee, August 10<sup>th</sup>. He joined the Pennsylvania Salt Manufacturing Company that later became Pennwalt and now Atochem. He worked in the areas of industrial detergents and metal treating compounds and was group leader in the Metalprep laboratory when he retired after 43 years of service. He continued to consult for the firm after retirement and was a 68-year member of ACS.

**John A. Boxler**, retired chemical engineer formerly with Hercules, September 1<sup>st</sup> at 77. He worked first for DuPont and then was hired by Hercules where he served 25 years in the fiber and films division, retiring in 1991. He was involved in developing stretch and shrink plastic films.

**Samuel Mirshak**, retired research director, September 2<sup>nd</sup> at 77. He worked at the Savannah River National Laboratory operated by DuPont for the US Department of Energy. He developed the Mirshak heat transfer correlation that is used in nuclear reactor core design. From 1984 to 1989

he served as director of nuclear quality and safety for DuPont in Wilmington. Following retirement he was a consultant for the government on disposal of nuclear waste. In retirement Mirshak was active in religious and civic organizations in the Chadds Ford area.

**Roland L. Eaton, Jr.**, retired research chemist formerly with DuPont and Sun Oil, September 5<sup>th</sup> at 84. After working briefly for DuPont he joined Sun Oil's technical marketing staff in 1954. He retired from Sun in 1983 as manager of the firm's specialty oils and waxes division. He was an avid musician and made jewelry using stones that he collected and polished.

**Lenore Lucas Caiola**, retired chemist formerly with Quaker Chemical, September 14<sup>th</sup> at 99. She was engaged in medical research briefly after college and then joined Quaker in 1930. Among her developments with the firm was a method to prevent Whitman's chocolates from turning white during the summer heat, a solvent for cleaning the Empire State Building, and a deicing compound for airplanes. She retired from Quaker in 1942 to become a homemaker and became active in scouting and the local YMCA.

**Thomas B. Marshall**, retired DuPont chemist, September 16<sup>th</sup> at 85. He was a direct descendant of Chief Justice John Marshall. He was a history buff and donated a collection of photographs to the Chester County Historical Society.

**Note:** News Atoms seeks to report new hires, significant promotions, honors and awards, and those who have recently passed away from the field of chemistry in the greater Philadelphia area. If you have a news item for this column, send it by email to [philcatalyst@aol.com](mailto:philcatalyst@aol.com) or by mail to the Philadelphia Section ACS.

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## CHEMICAL CONSULTANTS NETWORK

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**Date & Time:** Wednesday, November 14<sup>th</sup> 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:

Thomas M. Smith—Business Manager, ChemInsight™, American Chemical Society: *Call an Expert!*

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

**Reservation:** To make or cancel a dinner reservation, e-mail [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or call the ACS office at 215-382-1589 (leave message on voicemail if necessary). Fee, including food and beverages, is \$35. Early Bird discount price is \$25 if reserved by Thursday November 8. Late reservations and walk-ins subject to availability. No-shows will be invoiced.

**Abstract:** There is a growing demand for scientific expertise in business and law. As chemical and allied technologies increasingly become part of commercially successful products and services, the demand for scientific experts to help business and legal professionals is increasing. The presentation will provide market information on the consulting industry, followed by more specific background regarding the expert witness segment. An introduction to the ACS ChemInsight™ service will be presented.

**Biography:** Tom Smith is the Business Manager with ChemInsight. Before joining ACS, Tom had been in marketing and sales development management in the Chemical and Plastics Industry for 17 years, with ARCO Chemical, Phillips 66 Chemical Co., and AlliedSignal Engineering Plastics. In his last position with Congoleum Corporation, he started a new product venture in laminates and later was the Product Stewardship Manager. Smith graduated from Penn State University with an MBA and has a BS in Business and Economics from Lehigh University.



THE PHILADELPHIA SECTION,  
AMERICAN CHEMICAL SOCIETY

announces the

**EIGHTH ANNUAL GRADUATE STUDENT  
AND  
THIRD ANNUAL UNDERGRADUATE STUDENT  
POSTER SESSIONS**

Thursday, January 24<sup>th</sup>  
5 to 8 PM  
Temple University  
Philadelphia, PA

Abstracts for posters may be submitted in ALL areas of Chemistry,  
Chemical Engineering and Biochemistry

Abstracts in ACS electronic format should be submitted to:  
Ms. Deborah E. Kilmartin

**Electronic copy required!!:** [gradposters@aol.com](mailto:gradposters@aol.com)

**Deadline for submittal of abstracts: January 10<sup>th</sup>, 2008**

## BOOK REVIEWS

Alan Warren

*Catalysis from A to Z: A Concise Encyclopedia*, third edition. Ed. Boy Cornils, Wolfgang A. Herrmann, Martin Muhler, and Chi-Huey Wong, in three volumes. 1,584 pages, casebound, approximately 7 x 10 inches, Wiley-VCH Verlag, Weinheim, Germany, 2007. ISBN 978-3-527-31438-6, \$560 from John Wiley & Sons, Inc., 111 River St., Hoboken NJ 07030.

This three-volume work is an alphabetical listing of terms used in the field of catalysis. The rapid growth in this field is indicated by the fact that this is the third edition following the first edition that appeared only seven years ago, and it has already doubled in size. Some 260 authors and coauthors were engaged in the compilation of terminology.

Each entry has one or more brief literature citations with a nine-page bibliography of general references presented. A key to abbreviations used in the encyclopedia is provided. Some 8,000 keywords are listed and the definitions are enhanced with the use of many figures and tables. In most examples the French and German equivalents for the terms are also given.

The editors believe that their "compilation is unique in portraying the state-of-the-art of technical solutions and alternative processes in the chemical industry as far as catalytic processes are concerned." While most terms are presented simply with a definition or a descriptive paragraph, there are many examples of extensive discussions such as for catalytic reactors, hydrogenation, and redox reactions that take a page or more.

Everything you wanted to know about catalysis, from abzymes to zeolites, is here.

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*Chemical Analysis: Modern Instrumental Methods and Techniques*, 2<sup>nd</sup> edition, Francis and Annick Rouessac. 598 pages, 6 ¾ by 10 inches, casebound, John Wiley and Sons Ltd., Chichester, United Kingdom, 2007. ISBN 0470859024, \$165 from John Wiley & Sons, Inc., 111 River St., Hoboken, NJ 07030.

Originally published in six editions in France, this is the second English edition and the authors have chosen to focus on methodology rather than theory. The book is a result of teaching analytical methods at the university level but will be of interest to industry and other organizations involved with chemical analysis.

The text is arranged in three parts: separation methods, spectroscopic methods, and other methods. Following a general overview of chromatography, the authors discuss gas chromatography, high-performance liquid chromatography, ion, thin layer, super critical fluid, size exclusion chromatography, and capillary electrophoresis and electrochromatography.

The basic principles of each technology are described followed by the materials and components of the techniques. The spectroscopic methods include ultraviolet and visible absorption, infrared, fluorimetry and chemiluminescence, x-ray fluorescence, atomic absorption and flame emission, atomic emission, and nuclear magnetic resonance spectroscopy.

Among the other methods reviewed in the third part are mass spectrometry, labeling methods, elemental analysis, potentiometric methods, voltammetric and coulometric methods, sample preparation, and basic statistical parameters. That final chapter addresses mean value, variance and standard deviation, random or indeterminate errors, and calibration curve and regression analysis, among other topics.

Each chapter ends with a list of 6 to 10 problems to be solved as a way to test understanding of the methodologies presented. The solutions to the problems appear near the end of the book. A useful appendix provides an alphabetical list of acronyms used in the field of chemical analysis. A brief bibliography, table of constants, and a subject index conclude the volume.



**593<sup>rd</sup>. Board of Directors Meeting**  
**Thursday, June 12<sup>th</sup>, 2007**  
**Cynwyd Club**  
**Bala Cynwyd, PA**

This is the edited version of the minutes. A full copy of the minutes can be obtained from the Section Office.

**Present:** D. Cichowicz, E. Davis, A. DeMasi, C.J. Bruner, D. Cook, J. Falcone, Jr., M. Falcone, R. Gates, J. Summers-Gates, D. Kilmartin, K. Thrush-Shaginaw, T. Straub, J. Tierney, V. Tortorelli.

**Excused:** M. Cichowicz, Sr. R. Mulligan, C. Rulli, J. Tierney, D. Thomas, A. Templeton.

**Also Present:** L. Harper, P. Sullivan, H. Whalen.

The meeting was called to order at 2:05 PM per Chair Cichowicz. The minutes for the May 2007 meeting were approved as amended.

**COMMITTEE REPORTS:**

**Education Committee (T. Straub):** High School certificates for proficiency were awarded to 192 students representing 182 schools. A student from the local section participated in the National Chemistry Olympiad study camp.

**Nominations:** D. Kilmartin presented the Board with the slate for the 2008 election. A motion to accept the slate passed unanimously.

**OFFICER'S REPORTS:**

**Chair:** D. Cichowicz has received a DVD from National titled: "Local Sections Connecting Chemistry and the Community." The September 20<sup>th</sup>, 2007 meeting will be held at the Elmwood Park Zoo. It will be announced in an email blast along with the announcement of a call for nominations for a Legislative Award per Alan Heldon. Dave also thanked members of the MARM Committee for a successful meeting.

**Chair-Elect:** E. Davis made a motion announcing that Dr. Robert Levis from Temple University will be the recipient of the Philadelphia Section Award. All were in favor. Ella thanked the members of the committee for their diligent work as there were many fine candidates to consider. The January meeting (Graduate/Undergraduate Poster Session) will be held at Temple University.

**Secretary (A. DeMasi):** No report.

**Treasurer (C.J. Bruner):** The interest on the Capital fund for the 1<sup>st</sup> quarter was \$1795.58. The interest for the Ulylot Fund was \$764.85 for the same time period. The Board expressed concern that the interest rate was low. The Board requests that Finance, Budget and Audit (FBA) investigate the issue and report on it at the September meeting. The Board also discussed establishing a policy whereby FBA monitors National's handling of Section investments. J. Falcone expressed interest in participating on the FBA. He agreed to contact National to get a history of their investment performance. There is currently excess funding "on-hand" due to income from MARM; this is an anomaly which will be rectified once MARM invoices are paid.

**OTHER BUSINESS:**

**Student Travel Award:** J. Falcone reported that a student from West Chester is requesting funding from the Student Affiliate Travel Grant. The student will receive 50% of the funding required to attend the Boston meeting from West Chester. J. Falcone made a motion to provide funding up to \$250.00 for the student providing she fulfills the requirements of the grant process. All were in favor.

There being no other business, the meeting adjourned at 2:50 PM.

Respectfully submitted,

Anne S. DeMasi, Secretary

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**Everyone Welcome!**

## **ACS PUBLIC POLICY FELLOWSHIP APPLICATIONS Due December 31<sup>st</sup>**

For more than 30 years, the American Chemical Society (ACS) has been working to bridge the gap between science and public policy through its Public Policy Fellowship Programs. These programs provide a unique opportunity for ACS members to gain practical experience and insights into public policy by working on Capitol Hill or at the ACS offices in Washington, DC.

The ACS Congressional Fellowship Program ([www.chemistry.org/government/fellowship.html](http://www.chemistry.org/government/fellowship.html)) places two fellows each year as staff members in the office of a Senator, Representative, or Committee. As part of a broader effort administered by the American Association for the Advancement of Science (AAAS) (<http://fellowships.aaas.org>) that places more than 30 scientists per year in Congress, this program has two main goals: to provide policy-makers with high quality information on science-related issues and to educate scientists on how government works and how science policy is made. Fellows join the Congressional staff of their choice, with placement support provided by ACS and AAAS.

Fellows typically serve as legislative assistants, advising staff and members of Congress on a range of science policy issues and interacting with constituents. Former ACS Congressional Fellows have worked in both the Senate and the House of Representatives—on the staffs of individual members (including key committee chairs and the Office of the Majority Leader) and for committees in both the House (for example, the Homeland Security and Armed Services Committees) and Senate (e.g., Energy and Natural Resources and Health, Education, Labor and Pensions Committees). The fellows have had assignments in important science-related areas as diverse as environmental issues, science education, health policy, energy policy, and federal funding for scientific research.

The ACS Science Policy Fellowship Program ([www.chemistry.org/government/fellowship.html](http://www.chemistry.org/government/fellowship.html)) places one fellow in the ACS Office of Legislative & Government Affairs (OLGA) for one to two years. The Fellow works with experienced OLGA staff to provide information to policy makers on the role of science in public policy, advance specific recommendations on issues affecting the chemical enterprise, and inform ACS members and involve them in the policy process. In past years, Science Policy Fellows have played an important role in organizing ACS's "Science and the Congress Project," a highly acclaimed program that provides expert panel briefings and educational information to Congressional staff on subjects ranging from "Science and Technology in the Intelligence Community" to "Partnering for Results in Science, Technology, Engineering and Math Education."

Applications are due December 31<sup>st</sup> for Public Policy Fellowships beginning in September 2008. All ACS members with a sincere interest in the public policy process are encouraged to consider applying. More information on the program, qualifications, and application content are available online at [www.chemistry.org/government/fellowship.html](http://www.chemistry.org/government/fellowship.html) or by contacting the ACS Office of Legislative and Government Affairs at 202-872-4387.

---

## **DELAWARE VALLEY SCIENCE FAIRS**

The Delaware Valley Science Fairs will be coming up before you know it. Judges and mentors are always needed.

Check the website  
**[www.dvsf.org](http://www.dvsf.org)**  
for more information and to  
volunteer.

## **GUIDELINES FOR STUDENT AFFILIATE CHAPTERS TO REQUEST FUNDS TO ATTEND NATIONAL ACS MEETINGS**

Undergraduate students from American Chemical Society (ACS) Student Affiliate Chapters in the Philadelphia Section are encouraged to consider attending National Meetings of the ACS. In this regard, a limited amount of funding will be provided to chapters requesting sponsorship based on the following general guidelines.

### **General Guidelines**

1) First consideration will be given to student(s) who wish to attend a National Meeting of the ACS to give a presentation (oral or poster). Students attending for other purposes, i.e., to receive an award or attend a specific workshop, etc., are also eligible to apply for support.

2) The student(s) must have requested support from their college or university (including department and/or advisor) to assist in defraying the travel costs. Please attach a copy of the correspondence.

3) The student(s) should have a clear idea of the benefits of attending the conference. Please attach a short paragraph from each student indicating which sessions, including workshops, etc., which the student plans to attend and why these sessions will help them obtain their professional goals.

All applications must include an itemized list of the projected costs of the trip, i.e., registration, airfare, train or car expenses, hotel, etc., and indicate which of these costs (if any) are being provided by other sources.

An application for travel support can be made at any time to the Philadelphia Section, but for full consideration, the application must be received by the Section office by January 31<sup>st</sup> for the Spring meeting.

The Philadelphia Section will evaluate all applications received by the deadline and vote at the February meeting for the Spring ACS meeting applications and at the June meeting for the Fall ACS meeting applications. The amount of funding available may be influenced by the number of applications for

a particular meeting and the costs of attending that meeting, i.e., where it is being held.

The successful applicant must submit a brief report highlighting the conference experience to the Philadelphia Section at the completion of the trip. The original receipts should also be submitted to the Section office for reimbursement.

---

## **CALL FOR NOMINATIONS**

### **The 17<sup>th</sup> Annual Philadelphia Section, American Chemical Society AWARDS FOR EXCELLENCE IN PRE-COLLEGE TEACHING**

The Philadelphia Section of the American Chemical Society will honor two outstanding science teachers from the Delaware Valley with its Awards for Excellence in Pre-College Science Teaching. One award will be given to a full-time educator involved in teaching science in grades K - 8. The second award will be given to a full-time educator at the secondary level (grades 9-12) who teaches chemistry. Nominees must teach in the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

**Nominations for 2008 will be accepted until Tuesday, February 5<sup>th</sup>, 2008.** The nomination should consist of a letter of nomination, the nominee's CV and at least two letters of recommendation. Other supporting information, such as students' comments, is welcome. The total nomination package should not exceed 30 pages. A full copy of the package can be mailed to:

Chair, Awards Committee  
Philadelphia Section, ACS  
Department of Chemistry  
University of Pennsylvania  
Philadelphia, PA 19104-6323

However, submission by electronic mail is preferred: PhilaACS@aol.com. For more information, please contact the Philadelphia Section, ACS office: phone: (215) 382-1589.

**Award recipients will be honored at our May 2008 Section meeting with a certificate, an honorarium and an enrichment allotment.**

## TELEMENTORING: MAKING A DIFFERENCE EVERY DAY

- *Have you ever wished that you could make a difference in a student's life, but just didn't know how to fit one more thing into your busy schedule?*
- *Or perhaps, have you ever wished you knew how to provide your students with "real world" career or science fair project advice?*
- *Or has your company been looking for a way to help students around the world successfully pursue their dreams?*

If your answer to any of these questions was "yes," then the International Telementor Program (ITP) may be exactly what you've been looking for! I've mentored over 45 students from Kansas, Louisiana, California and elsewhere through ITP over the past 6 years and I continue to be amazed by the difference that such a small amount of my time can make in their lives!

ITP facilitates electronic mentoring relationships between professional adults and students worldwide to enable students to develop the skills and foundation they need to make their dreams and goals a reality. ITP is a recognized leader in the field of academic-based mentoring. Since 1995, over 15,000 students throughout 9 countries have received support, encouragement, and professional guidance through their program. ITP serves students in K-12 and home school environments, as well as college and university settings. Often I've found that these students come from low-income and/or broken homes and this is one of the few opportunities they have to interact with a professional who really cares about them and is dedicated to seeing them succeed.

Mentoring relationships are project-based (usually 9 weeks or less), with expected student/mentor outcomes listed for each project step along with a final project due at the end of the project period. Some typical projects include: Career and Educational Plans, Success 101 – Covey's 7 Habits for Highly Effective Teens and Science Research Projects. Projects like these enable students

to develop the skills and foundation they need to pursue their interests and achieve future success.

- To learn more about participating in any capacity: <http://www.telementor.org/participate.cfm>.
  - To learn how to become a sponsor company or how to use this program to serve students in your community, contact ITP Toll Free: (877) 376-8053 (US and Canada) or by e-mail: [info@telementor.org](mailto:info@telementor.org).
  - To view currently available projects at anytime: <http://www.telementor.org/newprojects.cfm>. This list is continually updated as new projects become available.
- Kendra L. Yoder

---

## NEW DRUG DELIVERY SYSTEM

In an advance toward the long-sought ability to deliver medication directly to diseased tissue, while minimizing side effects and damage to healthy parts of the body, scientists are reporting development of a new dosing system that is controlled by light. The study appeared in the August 15<sup>th</sup> issue of the *Journal of the American Chemical Society*.

Colin P. McCoy and colleagues in Northern Ireland describe their new molecular-scale dosing devices as a "new paradigm for precise control of drug dosing using light." The devices consist of medications that are combined with certain chemical compounds that respond to light in ways that release precisely controlled amounts of drug. Drug release begins when light falls on the compounds, and lasts as long as the light continues to shine.

The study reports successful laboratory tests of the system in the controlled release of three common medications used to treat pain and inflammation — aspirin, ibuprofen and ketoprofen. One potential use cited in the study would be in the treatment of urinary catheter infections, where the drug is held latently in the catheter, and is released when needed. The system could be applied for other conditions using an implant under the skin for precisely controlled drug dosing, the researchers suggest.

## POTATO CHIP FLAVORING BOOSTS LONGEVITY OF CONCRETE

The ingredient that helps give "salt & vinegar" potato chips that tangy snap is the key to a new waterproof coating for protecting concrete from water damage, according to a study printed in the (August 1) issue of ACS' *Industrial & Engineering Chemistry Research*, a bi-weekly journal.

Awni Al-Otoom and colleagues in Jordan point out that concrete's unique properties have made it the world's most widely used structural material. Concrete, however, is so porous that water soaks in, corroding steel reinforcing bars and meshes that strengthen concrete roads and buildings and causing cracks as water expands and contracts

during freeze-thaw cycles. Sealants are commercially available, but they have serious shortcomings, the study notes.

In the new report, researchers describe the use of sodium acetate as an inexpensive and environmentally friendly concrete sealant. One of sodium acetate's many uses is in flavored potato chips. In laboratory studies using freshly made concrete, the researchers showed that sodium acetate seeps into pores in concrete and then hardens and crystallizes upon exposure to water. The resultant swelling blocks entry of additional moisture, they said. Under dry conditions, the crystals shrink back to their original size and allow moisture to evaporate. The net result is "a significant reduction in water permeability," that "can be expected to increase the service life of the concrete," the report said.

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- <http://www.chemistry.org/portal/a/c/s/1/career.html?DOC=careers%5cindex.html>

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

DATE	EVENT	LOCATION
Nov. 1 1 <sup>st</sup> Thurs.	<b>Ulyyot Lecture: Shirley M. Tilghman</b> <b>Princeton University: <i>Strategy or Happenstance: Science Policy in the USA</i></b> <b><a href="http://www.chemheritage.org">www.chemheritage.org</a></b>	<b>Chemical Heritage Foundation</b> <b>Philadelphia, PA</b>
Nov. 3	Expand Your Horizons Mini-Conference for Sixth Grade Girls <a href="http://awisphl.org/index.htm">http://awisphl.org/index.htm</a>	Chestnut Hill College Philadelphia, PA
Nov. 12	Delaware Valley Mass Spec Group Richard Caprioli (Vanderbilt): <i>Molecular Imaging and Profiling of Tissue Sections using Mass Spectrometry: Applications in Biological and Clinical Research</i> Lisa Cazares (EVMS): <i>Direct Profiling of Proteins in Tissue Sections by MALSI-TOF Mass Spectrometry</i> <a href="http://science.widener.edu/svb/msdg/">http://science.widener.edu/svb/msdg/</a>	Villanova University Villanova, PA
Nov. 14	Chemical Consultants Network Thomas M. Smith: <i>Call an Expert!</i> <a href="http://www.chemconsultants.org">www.chemconsultants.org</a>	The Cynwyd Club Bala Cynwyd, PA
<b>Dec. 8</b>	<b>Herb Bassow Memorial Chemistry Demonstration and Hands-on Program</b>	<b>La Salle University</b> <b>Philadelphia, PA</b>
Dec. 13	Philadelphia Organic Chemists Club Jacquelyn Gervay-Hague: <i>The Unique Reactivity of Blycosyl Iodides en Route to Complex Glycoconjugates</i> <a href="http://www.pocclub.org/">www.pocclub.org/</a>	University of Pennsylvania Philadelphia, PA
<b>2008</b>		
<b>Jan. 24</b>	<b>Eighth Graduate and Third Under-graduate Poster Sessions</b>	<b>Temple University</b> <b>Philadelphia, PA</b>
Mar. 16-21	NOBCChE National Meeting	Philadelphia, PA
<b>March 17</b>	<b>Edgar Fahs Smith Lecture</b> <b>Chad Mirkin, Northwestern University</b>	<b>University of Pennsylvania</b> <b>Philadelphia, PA</b>
April 6-10	ACS Spring National Meeting	New Orleans, LA
<b>April 17</b>	<b>Scholastic Achievement Awards</b>	<b>TBA</b>
<b>May 15</b>	<b>Teaching Awards</b>	<b>TBA</b>
May 18-21	Middle Atlantic Regional Meeting (MARM) <a href="http://www.marmacs.org/2008/index.html">www.marmacs.org/2008/index.html</a>	Queensborough Community Coll. New York
<b>June 19</b>	<b>50-year Members</b>	<b>TBA</b>
Aug. 17-21	ACS Fall National Meeting	Philadelphia, PA
<b>Sept. 19</b>	<b>September Section Meeting</b>	<b>TBA</b>
<b>Oct. 16</b>	<b>Philadelphia Section Award</b>	<b>TBA</b>
<b>Nov. 20</b>	<b>Ulyyot Lecture</b>	<b>Chemical Heritage Foundation</b> <b>Philadelphia, PA</b>