the Catalyst
A Publication of the Philadelphia Section of the ACS
http://membership.acs.org/p/philadelphia
November 2008 ISSN 0008-767X

Seeking Teaching Award Nominations, p. 181

Speaker's Biography, p. 184

Student Poster Session, p. 189

Dr. Bernard Bigot
2008 Ullyot Lecturer

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ADVANCE NOTICE

JANUARY MEETING

Graduate, Undergraduate and High School Poster Session
Temple University

Thursday, January 22, 2009

See the January Catalyst for details,
call the Section Office at (215) 382-1589, or email PhilaACS@aol.com
VOTE! I know that you may not receive this Catalyst issue until after the elections are held. But because of the importance of these elections, I want to reiterate my appeal for everyone to vote in the event that it may be received in time. In the ACS National election we have an opportunity to make a decision about our Society’s future. As I have said before, our nation’s presidential election is historic as well as critical in determining our nation’s future. While I have no intention of telling you who to vote for in either election, I do want to encourage everyone to exercise your responsibility in your national, state, and local government elections and our society’s national and local elections. Please – VOTE. Thank you.

An ongoing theme for the latter half on this year has been the Section’s memorial in celebration of the life of Deborah Kilmartin. As the planning for next year goes forward we are once again reminded of the impact she had on the success of our programs. Replacing her contributions is a tall order, but members of the Section are working hard in the attempt. I want to encourage all members of our Section to contribute in one additional way to her memory and at the same time have a real impact on the life of a deserving young person. You can honor Deb by giving to Project SEED, a program that gives economically disadvantaged high school students the rare opportunity to work in the lab for 8 to 10 weeks in the summer. One way to do this is to use the society’s new online donation form to make a gift to Project SEED. You can access this form at the following link: https://webapplications.acs.org/applications/give. Enter Deb’s name in the space provided. If we can raise a total of $50,000 in contributions designated in her honor we can endow a perpetual Project SEED scholarship in her name. This is an enduring way to memorialize Deb and celebrate all she contributed. I hope you will consider making a generous donation. Together as a Section we can create a long standing memorial for Deb and make a real contribution to the future of deserving young people and thus our chemical enterprise – a win-win!

Our meeting this month is the prestigious 2008 Ullyot Public Affairs Lecture that will be held at the Chemical Heritage Foundation on November 20, 2008. This lecture is 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, and The Chemical Heritage Foundation. The lecture series was founded by, and is named for, Glenn Ullyot who wanted to present “chemistry in the public interest.” The Ullyot lecturer for this year is Dr. Bernard Bigot, Professor, Ecole Normale Supérieure de Lyon and High Commissioner to Energie Atomique (French Atomic Energy Commission – CEA). The title of Dr. Bigot’s talk is: The French Choice: Nuclear Power and Other Energies for a Sustainable Future. As you can see, the topic is very relevant as energy and sustainability are key issues for the current elections and our country’s and the world’s future. I encourage you to come out to hear this timely speech from an illustrious scientist who is a world-renowned alternative energy specialist.

One month left and counting… As I have said before, the year has truly been a wonderful adventure for me. The meetings and events have been enjoyable and it has been great to have made the acquaintance of so many of you. If you have not had a chance to join us as of yet, please try to make one of these last meetings. We are however, looking with great anticipation to next year. Bob Gates, our chair-elect (Bob is the 2008 chair-elect and the 2009 chair), is working on the programming for next year along with some of our other Section volunteers. Our 9th annual student poster session is again being planned for January. Continue to check out the local Section calendar of events in this and future issues of the Catalyst and mark
your calendars to save the dates. Keep your eye on the Catalyst’s announcements, this column and our local Section web site for details for upcoming events - http://membership.acs.org/p/philadelphia/.

Even as 2008 is winding down and we begin to look forward to 2009, I once again invite you to personally get involved with your Section. In these uncertain and rapidly-changing times, take advantage of ACS opportunities and resources to advance your career and enhance your life. You can participate on one of the several Section committees, participate in a Section outreach event or you can simply attend monthly meetings. Please get in touch with me if you have questions or suggestions for future events. You can send me an email at: philaacschair@aol.com. I will be sure to pass along any messages to our incoming chair. In any event, I look forward to seeing and meeting with as many more of you as possible before 2008 ends and on into the New Year.

NEWS ATOMS

Marsha I. Lester, the Edmund J. and Louise W. Kahn professor of chemistry at the University of Pennsylvania, was named editor of The Journal of Chemical Physics, published by the American Institute of Physics. Won-Suk Kim, graduate student in organic chemistry at Penn, was awarded the Horst Witzel Prize in Organic Chemistry. Sponsored by Cephalon, the prize is presented to an outstanding graduate student in organic chemistry from a university in the greater Philadelphia area.

Robert R. Ruffolo, Jr., senior VP of Wyeth and president of R&D for Wyeth Pharmaceuticals, received the ACS Biochemical Technology Division’s David Perlman Memorial Lectureship. The BIOT division also presented the Marvin J. Johnson award in microbial and biochemical technology to Barry C. Buckland, research vice president of process R&D at Merck & Co.

Former ACS president Catherine T. Hunt was named corporate sustainability director at Rohm and Haas.

DEATHS

Marguerite Mary Houser, research chemist, August 28th. She was employed by Johnson Matthey for over 25 years. She was an avid golfer and often attended the Masters tournament in Georgia.

Lewis Paul Saxter, chemist, September 2nd at 87. He was employed by Rohm and Haas from 1947 to 1958 and then joined American Cyanamid, retiring in 1982.

Eleanor Jeans, chemist, September 3rd at 64. She joined McNeil Pharmaceuticals in 1967 and worked for nearly 30 years for various Johnson & Johnson companies, retiring in 2003. She worked on several well known drugs including Tylenol™.

Correction: We regret an error that appeared in the September News Atoms: Leonard S. Gilbert should have been Leonard S. Silbert.

Note: News Atoms seeks to report on people in the field of chemistry in the greater Philadelphia area. If you have news about new hires, significant promotions, honors and awards, and those who have recently passed away, send it by email to philacatalyst@aol.com or by mail to the Philadelphia Section ACS.

CALL FOR NOMINATIONS

The 18th 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 2009 will be accepted until Tuesday, February 3, 2009. The

continued on page 188
Date & Time: Thursday, November 13, 2008. The meeting will begin at 10:00 AM with a Chemical Consultants Networking Event and Reception, followed by lunch at 12:15 PM and talk at 1:00 PM. The meeting will adjourn at 2:00 PM.

Speaker: Greg Olsen, Founder of GHO Ventures.

Biography: Greg Olsen was the third private citizen to orbit the earth on the International Space Station (ISS). After an illustrious career as a research scientist and entrepreneur, Greg is now president of GHO Ventures in Princeton, NJ. He performs numerous speaking engagements to encourage children—especially minorities and females—to consider careers in science and engineering. Greg received a BS Physics (1966), a BSEE and MS Physics (1968) from Fairleigh Dickinson University, then was awarded a PhD in Materials Science from the University of Virginia (1971). He performed post-doctoral studies at the University of Port Elizabeth (South Africa), taught elementary physics classes, and then worked as a research scientist at RCA Labs (Sarnoff Center) from 1972 to 1983. Greg is an IEEE LEOS Fellow and the first recipient of the prestigious IEEE Aron Kressel Award.

Location: The Chemical Heritage Foundation, 315 Chestnut Street, Philadelphia, PA 19106-2702. Please note this is not CCN’s normal location.

Reservation: There is no charge for this meeting. Registration Is Required: Log onto www.chemheritage.org and click “Events & Activities,” or send an e-mail to eventregistrations@chemheritage.org; or call (215) 873-8208; or contact Bob Kenworthy, Affiliate Consultant: (215) 873-8292; Fax: (215) 629-5392; bkenworthy@chem-heritage.org. Reduced-rate parking is available at the Bourse garage on 4th Street between Market and Chestnut, and is based on availability. Pick up a parking voucher at the CHF registration desk.

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


Abstract: The impact of human intervention can have a significant impact on the operations and safety in the operation of chemical plants and facilities. This impact can be positive when for example it involves averting a potentially hazardous condition. It can also be negative as when a human error initiates the hazard. Understanding how to model the likelihood of a human intervention being conducted properly can help in assessing the inherent risk associated with the activities. Additionally it can help to identify critical weaknesses that need to be strengthened.

Biography: Chris O’Brien has over 20 years experience in the design, manufacturing and marketing of process automation, reserve power systems and safety related equipment. He is currently the Director of Business Development with Exida Consulting, LLC. In this role he focuses on supporting new and existing customers with their implementation of the IEC 61508 and ISA S84/IEC 61511 functional safety standards. Chris has been awarded 5 patents, including a patent for the industry’s first safety rated pressure transmitter. He has a BS in Mechanical Engineering from Villanova University.

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 $25 by the deadline, Thursday, December 4th, $35 afterwards. Late reservations and walk-ins subject to availability. There is no charge for talk only; registration is suggested using contact information above.
The 2008 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

Thursday, November 20, 2008

The French Choice:
Nuclear Power and Other Energies for a Sustainable Future

Dr. Bernard Bigot
Commissariat à l’énergie atomique France

6:00 PM
Ullyot Meeting Hall, Chemical Heritage Foundation
315 Chestnut Street, Philadelphia

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 Nancy Vonada at the Chemical Heritage Foundation, (215) 873-8226 or nvonada@chemheritage.org, on or before November 6th. The new permanent exhibit Making Modernity and traveling exhibit Molecules That Matter will be available for viewing during the reception.

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 BIOGRAPHY

Dr. Bernard Bigot, Professor, Ecole Normale Supérieure de Lyon, High Commissioner to Energie Atomique (French Atomic Energy Commission – CEA)

Dr. Bernard Bigot, alumnuus from the Ecole Normale Supérieure de Saint-Cloud, completed in 1973 a PhD in Physical Chemistry from Université Paris 11 (Orsay) and in 1979 a PhD in Physics from Université Pierre et Marie Curie (Paris). As a tenured professor in Physics, Chemistry specialization, he is the former auditor for the Institut des Hautes Etudes de la Défense Nationale (Higher Studies Institute for the French Defense Ministry). He was a Visiting Professor at Purdue University (USA) from 1980 to 1981, Associate Professor at the Ecole Polytechnique from 1983 to 1996 and he has been a Professor at Ecole Normale Supérieure since 1983.

He was Director of the Institut de Recherches sur la Catalyse (Catalysis Research Institute) at the CNRS in Lyon-Villeurbanne for 4 years, after being in charge for 15 years of the Theoretical Chemistry Laboratory, a joint laboratory for both the ENS Lyon and this research institute. He authored about 70 scientific publications in the fields of quantum physical chemistry applied to photochemistry, heterogeneous catalysis, reactivity in liquid phase and nuclear energy. Dr. Bernard Bigot participated in the creation of the Ecole Normale Supérieure de Lyon where he was first Deputy-director in charge of curriculum (1987-1993), then Research Director (1998-2000) and Director (2000-2003). While pursuing this academic career, he worked for the Ministry of Research and Higher Education as Head of the Scientific Mission (1993-1996), Managing Director of Research and Technology (1996-1997) and Director of Cabinet for the Ministry of Research and New Technologies (2002-2003). He has been the High Commissioner to Energie Atomique (French Atomic Energy Commission – CEA) since 2003 and President of the International Foundation of the Maison de la Chimie since 2006.
The Philadelphia Section of the American Chemical Society presents

The Herb Bassow Memorial

Chemistry Demonstrations For

Children of All Ages

Saturday, December 13, 2008


Make Slime, Gak, Balloon-on-a-stick, Float Bubbles,
Do Baggie Chemistry, pH Art, Milk Art

Demonstrations 10-11 AM
Hands-on Activities 11 AM-12 PM

Loyola Hall, First and Third Floors
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Immaculata, PA

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http://www.immaculata.edu/GenerallInformation/directions/Interactive_Map.html

Parking: Loyola parking lot adjacent to the building

Everyone Welcome!
ACS PUBLIC POLICY FELLOWSHIP APPLICATIONS DUE DECEMBER 31

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 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) 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 the 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 & Natural Resources and Health, Education, Labor & 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 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 & the Congress Project,” a highly acclaimed program that provides expert panel briefings and educational information to Congressional staff on subjects ranging from “Science & Technology in the Intelligence Community” to “Partnering for Results in Science, Technology, Engineering & Math Education.”

Applications are due December 31 for Public Policy Fellowships beginning in September 2009. 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.acs.org 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 for more information and to volunteer.

THOUGHT TO PONDER

We learn wisdom from failure much more than from success. We often discover what will do, by finding out what will not do; and probably he who never made a mistake never made a discovery. —Samuel Smiles

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


Excused: M. Cichowicz, C. Rulli, S. Miller.


The meeting was called to order at 2:45 PM by Chair Davis. The minutes for the May 2008 meeting were not approved because V. Tortorelli questioned a statement purported to have been made by A. DeMasi. A vote on approval of the minutes was postponed until the statement in question could be verified.

COMMITTEE REPORTS:

Nominations Committee (D. Cichowicz): The committee still has not finalized a slate of candidates. If ‘new blood’ is not forthcoming, then the unwritten tradition of nobody serving as chair twice will be broken. A comment was made that the nominations list will be needed soon because there is an August deadline.

Awards Committee (R. Gates): The committee voted for John J. Baldwin as winner of the Philadelphia Section Award. The award will be given at the October meeting.

The nomination passed unanimously.

Publications Committee (G. Cowperthwaite): M. Matthews has been appointed to fill out the remainder of the term for Deb Kilmartin. The appointment was approved by Chair Davis.

OFFICERS’ REPORTS:

Chair (E. Davis): A Philadelphia 6th grade teacher has sent an e-mail that she will be working, over the summer, with students who excelled in 6th grade. The teacher is looking for chemistry-related activities and events in which to engage the students over the summer. J. Summers-Gates will contact her.

It was recently announced by C. Hunt that A. Heldon has been appointed chair of the PA Government Affairs Committee.

A short discussion ensued about the need to facilitate electronic elections for the Philadelphia Section, however, G. Cowperthwaite indicated that a change in the by-laws is required. The change would need to be approved by the board, then sent to ‘National,’ then sent to the membership for a vote, and finally back to ‘National’ before implementation can occur.

Chair Davis indicated that a group was charged with reviewing the by-laws and she will contact that group to see how they have progressed with the task. D. Cichowicz indicated that ‘National’ had a list of requested changes in the by-laws. G. Cowperthwaite asked if ‘National’ had any specific wording, already in place, for the requested changes vis-à-vis electronic elections, etc. Nobody responded.

Chair-Elect (R. Gates): The Eastern N. Carolina Section made an enquiry via phone concerning the Science Café at the August ACS meeting in Philadelphia. S. Haynie pointed out that the Science Café was the responsibility of the Philadelphia Section and plans were well underway. S. Haynie will contact the person.

R. Gates requested names for speakers for next year’s schedule.

Secretary (J. Tierney): Two members were contacted concerning the fact that they had missed three consecutive meetings.

Treasurer: C.J. Bruner indicated that she had not updated the most recent figures because the allotment from ‘National’ has just arrived.

The ‘new award’ account is still being worked on setting up; the paperwork is in hand but has not been submitted.

The MARM monies will be moved into the capital account by the end of the year.

A motion to accept the treasurer’s report passed unanimously.

OTHER BUSINESS:

The proposal by S. Miller at the last meeting will need to be reviewed with comments to L. Harper and she will forward those comments to all on the board.

Regarding the memorial to Deb Kilmartin, for the ‘Project SEED’ idea, a letter from M. B. Dobson indicates that a full $50,000 may not be needed to fund the memorial. An announcement should be placed in the Catalyst. A motion to ask National to place all Project SEED money donated from the Philadelphia Section members into the fund to commemorate Deb Kilmartin passed unanimously. A separate motion to rename the Philadelphia Section Service Award to the Deb Kilmartin Award for Service passed unanimously. A. Addison had previously indicated that a prize has been donated in Deb’s honor for the Section’s Poster Session. A suggestion was made to look into further awards in Deb’s honor at the poster session – the discussion is to be continued. K. Thrush-Shaginaw indicated that a reception was to be held at the National ACS meeting in honor of Deb Kilmartin.
The minutes for the National Meeting had been sent out and not all concerned parties received copies. D. Cook has been in touch with National about the booth. The “Politician Event” has not worked out. S. Haynie asked if contact had been made with PECO concerning advertisement of the event on the building. S.Haynie and K. Thrush-Shaginaw discussed the costs of bobble heads, lanyards and badge holders.

T. Straub indicated that 15 students from the Section competed for spots on the Olympiad Selection group. They all placed in the top 150, however, none made the camp. 187 High Schools awarded 196 certificates to their top chemistry students.

J. Summers-Gates indicated that a change was needed for the National Chemistry Week dates due to conflicts.

A call is being put out for volunteers for a video for a new program to train early retirees or career changing chemists to teach middle school.

An incarcerated chemist is seeking help in the search for a job on release.

There being no other business, the meeting adjourned at 3:50 PM.

Respectfully submitted, John Tierney

The Catalyst

ROHM AND HAAS ACRYLIC INNOVATION NAMED A NATIONAL HISTORIC CHEMICAL LANDMARK

The development of water-based acrylic emulsion technology which sparked the growth of the do-it-yourself paint market was designated a National Historic Chemical Landmark by the American Chemical Society (ACS) in Philadelphia on September 15th.

ACS paid tribute to Rohm and Haas, whose scientists invented the water-based acrylic emulsion technology that transformed home painting from a smelly, messy ordeal that required turpentine and other solvents to clean up spills and brushes into a cleaner and more user-friendly process.

Thomas H. Lane, PhD, ACS president-elect, presented a commemorative plaque for the landmark designation to Raj Gupta, Chairman and CEO of Rohm and Haas.

“The ACS has recognized only 62 chemical landmarks since the inception of the program in 1993. This makes the award to Rohm and Haas a mark of distinction for contributions that reach far beyond the boundaries of scientific practitioners, touching many lives over many decades” said Lane, who is Director, Global Science and Technology Outreach and Senior Research Scientist, at Dow Corning Corporation.

“It is quite an honor to be recognized as the key developer of acrylic emulsion technology by such an esteemed organization as the ACS,” said Gupta.

Rohm and Haas’ innovation coincided with the return of veterans from World War II, which touched off a housing boom. Housing starts soared tenfold, which meant a lot of homes needed paint. Solvent-based paints dominated the market, but they were smelly, potentially toxic, flammable, and clean up required more unpleasant solvents like turpentine.

Rohm and Haas chemists suggested using aqueous acrylic emulsion technology to make house paints. Acrylic emulsions are environmentally friendly, non-toxic, non-flammable, easy to clean up with water, colorfast, and resistant to cracking and yellowing.

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 2009 Section meeting with a certificate, an honorarium and an enrichment allotment.
The Philadelphia Section, American Chemical Society announces the

**NINTH ANNUAL GRADUATE**
**FOURTH ANNUAL UNDERGRADUATE**
**AND SECOND ANNUAL HIGH SCHOOL**
**STUDENT POSTER SESSIONS**

Thursday, January 22, 2009
Temple University
Philadelphia, PA
5 PM to 8 PM

Abstracts for posters may be submitted in ALL areas of Chemistry, Chemical Engineering, and Biochemistry
Prizes awarded for the most outstanding posters
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Page 190
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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://wwwmembership.acs.org/p/philadelphia

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

Advertising Index

ACS 186, 191
Chemir Analytical Services 190
DuPont Analytical Solutions 190
Huffman Laboratories 191
IQsynthesis/Azopharma 189
MASS VAC, Inc. 184
Micron Inc. 190
NuMega Resonance Labs, Inc. 191
Pittcon 2009 178
Robertson Microlit Labs, Inc. 190
Schwarzkopf Microanalytical 190

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phone (781) 837-0424 • fax (781) 837-1453,
email: cust-svc@mboservices.net.
<table>
<thead>
<tr>
<th>DATE</th>
<th>EVENT</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2008</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov. 10</td>
<td>Delaware Valley Mass Spectrometry Discussion Group: David Russell, Texas A&amp;M: MALDITOF for Protein/peptides Characterization <a href="http://science.widener.edu/svb/msdg">http://science.widener.edu/svb/msdg</a></td>
<td>Villanova University Villanova, PA</td>
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<tr>
<td>Nov. 13</td>
<td>Chemical Consultants Network— Networking Event with the Joseph Priestley Society at 10 AM <a href="http://www.chemconsultants.org">www.chemconsultants.org</a></td>
<td>Chemical Heritage Foundation Philadelphia, PA</td>
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<tr>
<td>Nov. 20</td>
<td><strong>Ulyot Lecture: Bernard Bigot Commissariat à l’énergie atomique France</strong></td>
<td>Chemical Heritage Foundation Philadelphia, PA</td>
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<tr>
<td>Dec. 3</td>
<td>Delaware Valley Enzymology Club Zhihao Zhuang, University of Delaware Eukaryotic Translesion DNA Synthesis: Catalysis, Regulation and Anticancer Therapy <a href="mailto:archie.argyrou@bms.com">archie.argyrou@bms.com</a></td>
<td>D'Ignazio's Towne House Media, PA</td>
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<tr>
<td>Dec. 4</td>
<td>Philadelphia Organic Chemists Club Peter Wipf, University of Pittsburgh Recent Progress in Indole Synthesis <a href="http://www.pocclub.org">www.pocclub.org</a></td>
<td>University of Pennsylvania Philadelphia, PA</td>
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<tr>
<td>Dec. 13</td>
<td><strong>Herb Bassow Memorial Chemistry Demonstrations and Hands-on Activities</strong></td>
<td>Immaculata University Immaculata, PA</td>
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<tr>
<td><strong>2009</strong></td>
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<tr>
<td>Jan. 14</td>
<td>Chemical Consultants Network <a href="http://www.chemconsultants.org">www.chemconsultants.org</a></td>
<td>The Cynwyd Club Bala Cynwyd, PA</td>
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<tr>
<td>Jan. 22</td>
<td>Graduate, Undergraduate and High School Poster Session</td>
<td>Temple University Philadelphia, PA</td>
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<tr>
<td>Feb. 19</td>
<td><strong>TBA</strong></td>
<td>TBA</td>
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<td>March 12</td>
<td><strong>Edgar Fahs Smith Lecture: Paul Alivisatos, Lawrence Berkeley National Laboratory</strong></td>
<td>University of Pennsylvania Philadelphia, PA</td>
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<td>April 4</td>
<td>Expand Your Horizons Program for Sixth Grade Girls</td>
<td>Chestnut Hill College Philadelphia, PA</td>
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<tr>
<td>April 16</td>
<td>Scholastic Achievement Awards</td>
<td>TBA</td>
</tr>
<tr>
<td>May 21</td>
<td>Teaching Awards</td>
<td>TBA</td>
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<tr>
<td>June 18</td>
<td>Fifty-Year Recognition Luncheon</td>
<td>TBA</td>
</tr>
</tbody>
</table>