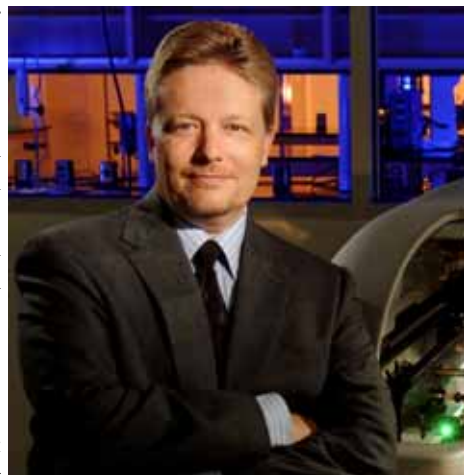


## Eric Wachsman, UMD, to Speak About Energy Issues in the 21st Century at May Meeting

Dr. Eric D. Wachsman is the featured speaker for the May CSW Dinner Meeting. The dinner meeting will be held at the University of Maryland on May 9, 2013. For details about the meeting, see page 2.

Dr. Eric D. Wachsman, Director of the University of Maryland Energy Research Center, is the William L. Creutz Centennial Chair in Energy Research with appointments in both the Department of Materials Science and Engineering, and the Department of Chemical Engineering at the University of Maryland.

He received his Ph.D. in Materials Science & Engineering from Stanford University, and his B.S. in Chemical Engineering from the University of California at Berkeley. He is a Fellow of The Electrochemical Society and The American Ceramic Society. In addition, he is Editor-in-Chief of *Ionics*, Editor of *Energy Systems*, formerly an Associate Editor of *Journal of the American Ceramic Society*, Chair of the New Technology Subcommittee and the National Capital Section of The Electrochemical Society, former Councilor of the Florida Section of the American Ceramic Society, and a member of the American Chemical Society, the International Society for Solid State Ionics, and the Materials Research Society. He has more than 220



publications and 8 patents on energy-related technologies.

Dr. Wachsman is a frequent invited panelist on fuel cell and hydrogen energy research, ranging from the U.S. Department of Energy “Fuel Cell Report to Congress” and “Basic Research Needs Related to High-Temperature Electrochemical Devices for Hydrogen Production, Storage and Use,” to the National Science Foundation “Workshop on Fundamental Research Needs in Ceramics,” NATO “Mixed Ionic-Electronic Conducting (MIEC) Perovskites for Advanced Energy Systems,” and the National Academies “Global Dialogues on Emerging Science and Technologies.” He also serves on numerous boards and was appointed by the Governor to the Board of Directors of the Maryland Clean Energy Center.

### Speaker Abstract, “Energy Issues in the 21st Century”

Our quality of life, standard of living, and national security depend on energy. Growing third world economies combined with finite resources are putting a tremendous strain on the availability of energy and we will have no choice but to transition to a diverse set of energy resources in the 21st Century.

...Continued on Page 9

## Call for Nominations for CSW Officers/Councilors/Managers

Contributed by CSW Nomination and Elections Committee

In the Capital Chemist and on the CSW website, you can see a list of the excellent activities supported by your local section. From supporting education (Project SEED, judging science fairs, YCC webinars) to professional networking opportunities (leadership development seminars, happy hours, career workshops) and community outreach (NCW, Chemists Celebrate Earth Day), the volunteers within CSW are working to support a wide variety of positive endeavors here in the DC area. To keep these running, and to support the development of new activities, we need your help. By serving as a member of the Board of Managers, as an officer in the organization, or as a Councilor, you can play a critical role in identi-

fying needs and opportunities for the organization and in supporting ongoing and new activities.

If you have ever found yourself thinking, “Wow, I wish the CSW would...” then please take advantage of this opportunity to get involved! As a Manager, you can serve on the committees that directly support these events and have a vote in where our funds are directed. As a Councilor, you can represent the CSW on the ACS Council and foster the relationship between our local section and the national organization. Are you the right person for the job? If so, please consider a self-nomination for the upcoming election. Do you know someone who might be a good fit? Please consider

...Continued on Page 7

# The Capital Chemist™



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## 2013 Officers

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Kathryn Hughes, National Academies

**Secretary**

Alan J. Anderson, Bowie State University

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Stefanie Sherrill, United States Patent and Trademark Office

## THE CHEMICAL SOCIETY OF WASHINGTON PRESENTS: *1119th Dinner Meeting*

**Thursday, May 9, 2013**  
**Stamp Student Union, Prince George's Room 1210**  
**University of Maryland**  
**College Park, MD**

### Agenda

**6:00 p.m.:** Check in/Social Hour

**7:00 p.m.:** Dinner

**8:00 p.m.:** Speaker, Dr. Eric Wachsman, UMD

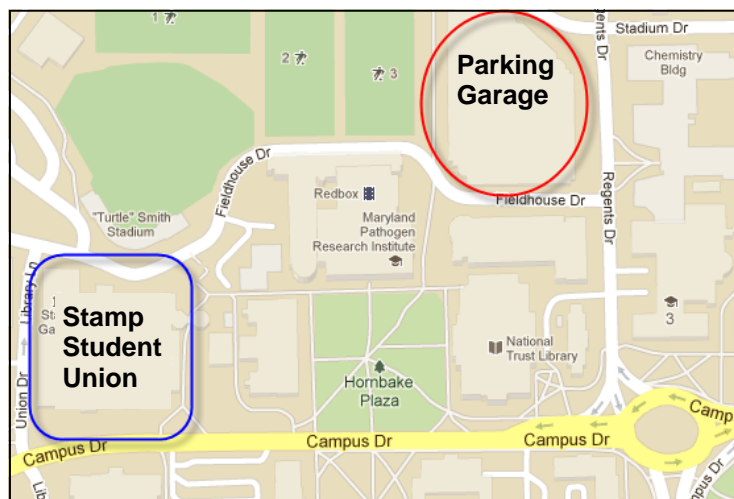
**COST** \$35.00 Members & guests  
\$17.50 Students

**Buffet-style menu includes:** mixed green salad; grilled herb-marinated chicken breast with merlot sauce; Yukon mashed potatoes; seasonal grilled vegetables; penne with squash, zucchini, sun-dried tomatoes, and marinara; Chef's selection of miniature desserts; freshly-brewed iced tea; Starbucks coffee; and tea

**Reservations:** Make reservations by **Monday, May 6, 2013, 12:00 noon**, to the CSW office: [csw@acs.org](mailto:csw@acs.org) or 202-659-2650. Please designate the names in your party. The public is invited to attend. You may attend the talk only, but reservations are appreciated. **Those who make a reservation, but are unable to attend, should send a check for the cost of their meal to the CSW office.**

**Directions:** From Baltimore Avenue (US Hwy 1), enter the UMD campus using Campus Drive. At the traffic circle, bear right onto Regents Drive. Parking is available in the parking garage across from the Chemistry building (circled below). Parking is unrestricted after 4:00 p.m. Campus Drive is also accessible from University Boulevard or Adephi Road, on the west of campus.

**Metro:** Green line to College Park. The University runs a free shuttle bus from College Park Metro Station. The bus stops at the Student Union. If you need a map, one is available from the University of Maryland website, at [www.umd.edu](http://www.umd.edu).





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**May 2:** How to Spot and Seize Opportunities: Lessons from Today's Business Leaders  
Speaker: Amy Wilkinson

**May 9:** Sous Vide Cooking with Chemistry  
Speaker: Douglas Baldwin

**May 16:** From Academia to Entrepreneurship (Session 3 of 9)  
Speakers: Mike Chi and Magda Marquet

**May 23:** The Transition from Graduation to a Career in Industry  
Speaker: Dawn Mason

**May 30:** How to Catch a Poisoner: The Sequel  
Speaker: Deborah Blum



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## Calendar of Events

**May Dinner Meeting**  
University of Maryland  
May 9, 2013

**Project SEED Applications Due**  
May 10, 2013

**Project SEED Orientation**  
May 25, 2013

**Anacostia Environmental Youth Summit**  
May 31, 2013

**Schubert Award Nominations Due**  
June 1, 2013

**SEED Program Begins**  
June 4, 2013

**Election Nominations Due**  
June 17, 2013

**Charles L. Gordon Award Nominations Due**  
September 16, 2013

**CSW Community Service Award Nominations Due**  
September 16, 2013

**Hillebrand Prize Nominations Due**  
October 15, 2013

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"Like" us today to keep up with CSW news and events!



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Facebook

## Dr. Elizabeth "Betsy" Weisburger Wins 2013 Philippe Shubik Distinguished Scientist Award

Dr. Elizabeth "Betsy" Weisburger was the recipient of the 2013 Philippe Shubik Distinguished Scientist Award from The Toxicology Forum. From their website, "this award recognizes an individual who has led a long and productive career in toxicology and who has made significant and noteworthy contributions to our field, including all aspects of traditional and regulatory toxicology. The recipient of this award will have played a leading role in the development of toxicology concepts and mechanisms or guidelines that have made significant and long-term change in important regulatory policies." Dr. Weisburger is a long-time, active member of CSW, served on the Board of Managers for many years, and has won several CSW awards, including the Hillebrand Prize in 1980, the Gordon Award in 1999, and the Community Service Award in 2008. Please join us in congratulating her on this honor.



From the award announcement:

*Dr. Elizabeth Weisburger has had a long and productive career in toxicology and has played a leading role in the development of toxicology concepts and in the development of guidelines that have influenced regulatory policies.*

*Dr. Weisburger received a B.S. in chemistry from Lebanon Valley College in Annville, PA and a Ph.D. in organic chemistry from the University of Cincinnati, Cincinnati, OH. Her thesis work was on the stereochemistry of fluorene compounds. After obtaining her doctorate degree, Betsy stayed at the U. of Cincinnati as a research associate studying fluorene compounds and in particular synthesizing analogs of the research carcinogen Z-acetylaminofluorene.*

*Betsy moved to the National Cancer Institute, NIH on a postdoctorate fellowship in 1949 and soon became an officer in the US Public Health Service (USPHS) in 1951. At the NCI Betsy conducted research and made important contributions on the mechanism of carcinogenesis and the metabolic fate of 2-acetylaminofluorene. She also investigated and published on the effects of various hormones, other compounds, and the effect of age, intestinal bacteria and various drugs on the carcinogenic activity and metabolism of the fluorenylacetarnides.*

*Betsy has also studied and published extensively on the carcinogenicity and metabolism of various nitrosamines, aromatic amines, halogenated hydrocarbons, fumigants and various food preservatives. Her studies in particular have aided in the elucidation of structural requirements*

*...Continued on Page 8*

## Project SEED Student Applications Due May 10

Contributed by Dr. Ajay Mallia, CSW-SEED coordinator

For the past 44 years, Project SEED has helped thousands of disadvantaged high school students who historically lack exposure to scientific careers by giving them an opportunity to conduct research at academic, industrial or governmental institutions. Under Project SEED, high school students participate in a scientific research project in chemistry under the direct supervision of a mentor scientist for a period of 8 - 10 weeks during the summer months. In this program, SEED fellows learn new research skills, gain self-confidence and expand their education and career outlooks to place their foot firmly in the tough and expanding job markets. If selected, these students are offered two exciting research opportunities:



### Summer I

For first-time participants, students conduct research in chemistry (or a related field) supervised by a scientist mentor. Students receive a fellowship award of \$2,500.

### Summer II

Summer II students get a second opportunity to continue working on their Summer I project or beginning a new one. Students receive a \$3,000 fellowship award and may be eligible for a travel grant to present research at an ACS or other scientific meeting.

### Application Process

High School science teachers are needed as sponsors to identify excellent chemistry students to participate in Project SEED and assist in the application process. These students must be enrolled in high school, must have taken one year of high school chemistry, and be able to prove economic disadvantage.

Applications for the Project SEED Summer I or II program, as well as Student Financial Statements are due by May 10, 2013. For more information, contact the CSW Project SEED coordinator, Dr. Ajay Mallia, at vajaymallia@gmail.com.



## 2013 CSW Award Nominations Due

Contributed by Mike Doyle, Awards Committee Chair

### Leo Schubert Award

The Leo Schubert Memorial Award recognizes an outstanding teacher of high school chemistry in the Washington, D.C. area. The award was established in 1979 to honor Dr. Leo Schubert, a chemistry professor at American University who devoted much of his career to developing programs for high school teachers and students. The award consists of a \$500 honorarium and a certificate, which will be presented at the December CSW dinner meeting.

Nominations for the award must be comprehensive and include supporting letters, as well as details about the nominee's accomplishments in areas such as innovation in teaching, writing curricula, outside teaching, papers published, involvement in science fairs, and postgraduate study. A nomination form can be obtained via an e-mail request to [csw@acs.org](mailto:csw@acs.org).

Eligibility: the nominee must teach chemistry at a secondary school in the geographic region of the Chemical Society of Washington, Washington, D.C., which includes neighboring counties in Maryland and Virginia. Please contact the Chair of the Awards Committee, Michael P. Doyle, [mdoyle3@umd.edu](mailto:mdoyle3@umd.edu), if you have any questions. Completed nominations must be submitted by Monday, June 1, 2013.

### Charles L. Gordon Memorial Award

Named after Charles Gordon for his years of service as managing editor of the *Capital Chemist*, the Charles L. Gordon Memorial Award is given in recognition of exemplary service by a CSW member to the profession of chemistry, to the science of chemistry, and/or to the Chemical Society of Washington. Nominations are invited for this award, consisting of a plaque that will be presented at the December CSW dinner meeting. A written nomination should include a description of the accomplishments on which the nomination is based. Additional documentation that includes seconding letters and the nominee's CV are welcome.

Completed nominations for the Charles L. Gordon Award are due on or before September 16, 2013. The nomination should be submitted electronically to [csw@acs.org](mailto:csw@acs.org). Please contact the Chair of the Awards Committee, Michael P. Doyle, [mdoyle3@umd.edu](mailto:mdoyle3@umd.edu), if you have any questions.

### Community Service Award

Nominations are invited for the Chemical Society of Washington Community Service Award that is given to a member of CSW in recognition of outstanding public service. The annual award, in the form of a certificate, will be presented at the December CSW dinner meeting. A written nomination consists of a letter that describes the contributions of the nominee and why the candidate is deserving of the honor. Additional documentation that includes seconding letters and the nominee's CV are welcome. In order to be eligible for the award, the nominee must be a member of the Chemical Society of Washington (ACS Local Section).

Completed nominations for the CSW Community Service Award are due on or before September 16, 2013. The nomination should be submitted electronically to [csw@acs.org](mailto:csw@acs.org). Please contact the Chair of the Awards Committee, Michael P. Doyle, [mdoyle3@umd.edu](mailto:mdoyle3@umd.edu), if you have any questions.

### Hillebrand Prize

Nominations are invited for the Hillebrand Prize that is awarded annually for original contributions to the science of chemistry by a member or members of the Chemical Society of Washington. The Hillebrand Prize is the most prestigious honor given by CSW and is recognized nationally as a mark of significant accomplishment in chemistry. Many previous Hillebrand Prize winners have won numerous other national and international awards, including three that have received the Nobel Prize. The Hillebrand Prize originated in 1924 and is named for Dr. William F. Hillebrand (1853-1925), an internationally-recognized pioneer in analytical chemistry and one of Washington's most distinguished chemists. The prize carries an honorarium of \$2000. Recent awardees can be found at <http://csw.sites.acs.org/hillebrand.htm>.

The nomination letter is limited to 1000 words. Two seconding letters are required, each limited to a maximum of 500 words, and the nomination package must also contain the nominee's curriculum vitae, including a list of publications and other accomplishments, and a proposed citation of not more than 25 words. The nomination package should be submitted by e-mail, preferably as a pdf file(s) to [csw@acs.org](mailto:csw@acs.org). Nominations will be active for three years. In accordance with the CSW Standing Rules, both the nominee and the nominator must be current members of CSW, but this restriction does not apply to writers of seconding letters. All materials must be received by October 15, 2013. The awardee will be announced before the end of the year, and the Prize will be presented at a CSW dinner meeting in March 2014. If you would like to verify the eligibility of an individual as a nominee or nominator, please contact the CSW Administrator at [csw@acs.org](mailto:csw@acs.org).

## CSW Younger Chemists Committee (YCC) News and Events

### 'Chemistry in the Forensic sciences' Talk at Marymount University

Contributed by Dr. Ajay Mallia and Dr. Deana Jabor, CSW-YCC coordinators

CSW-YCC and Marymount University's Science Club collaboratively organized "Chemistry in the Forensic Sciences" a talk by Dr. Jason Schaff, at Rowely Hall, Marymount University on April 17, 2013. Dr. Schaff started by saying "It's probably not what you think," explaining the application of chemistry in forensic science, and also discussed various analytical tools that are used by a forensic chemist. About 45 attendees enjoyed the lecture.



Above & Right: Attendees enjoying the meeting at Marymount University.

Photo credit: Ajay Mallia



Above: CSW-YCC coordinator Dr. Deana Jabor introducing the speaker, and Dr. Jason Schaff talking about chemistry in the forensic sciences.

Photo credit: Ajay Mallia

### Finding your path

CSW-YCC will be organizing a career-related workshop.

**Date and Time:** May 4, 2013, 10am-noon

**Venue:** Othmer Room, ACS headquarters, Washington, DC

"Career" means different things to chemists, especially younger chemists these days, whether at the graduate or postdoctoral level. In order to explore the diverse opportunities available in today's market, CSW-YCC will be organizing a workshop on career development and job prospects in the industrial and academic settings. Attend this workshop to hear expert advice on career development. Additional details will be provided on the CSW website (<http://csw.sites.acs.org/>), or contact YCC-coordinator Dr. Ajay Mallia ([vajaymallia@gmail.com](mailto:vajaymallia@gmail.com)) for more information. Please register by noon on Monday, April 29 by sending an email to [csw@acs.org](mailto:csw@acs.org). Limited seats are available, so please reserve soon!



Entering the contest is as EASY as 1, 2, 3!

1. Spot an image with a chemistry theme
2. Take the photo using a digital camera
3. Submit your best shot to the CHEM-PHOTO contest

Rules and other details will be posted on CSW website (<http://csw.sites.acs.org>) and Facebook page (<https://www.facebook.com/ACSCSW>). For more information, contact the CSW ([csw@acs.org](mailto:csw@acs.org), phone, 202-659-2650) or Dr. Ajay Mallia ([vajaymallia@gmail.com](mailto:vajaymallia@gmail.com))



**CSW Nominations, Continued from Page 1**

nominating them as a candidate for the position. Wishing you could get involved but concerned you might not have the time to commit to serving on the Board? Send us an e-mail anyway. You needn't be a Manager to serve on a committee or to participate and support these activities.

The following positions are open for election this year:

- 3 Councilors and 3 Alternate Councilors (serving three-year terms)
- Secretary (serving a two-year term)
- President-Elect (one year as President-Elect, one year as President, one year as Past President)
- 6 Managers (serving two-year terms)

The annual election of Officers, Councilors and Managers of the CSW will be held in November 2013 in accordance with the Bylaws and Standing Rules. All CSW Members are now invited and encouraged to submit nominations for the open positions. Self-nomination is acceptable. Elected members have general charge of the business and affairs of the CSW.

Nominations should be submitted to the CSW Office for receipt by June 17, 2013. All CSW members are eligible for nomination, and CSW welcomes all who are willing to participate, including those who have not previously held positions in CSW. Incumbents are eligible for nomination to the same position (if the term expires) or any other position as Officer, Councilor or Manager. Please note that all candidates will have to fill out a form for publication at the time of balloting.

**Current Officers:**

President: Douglas Raber, GreenPoint Science; President-elect: Kathryn Hughes, NAS; Past President: Robert Wiacek, Pixelligent Technologies; Secretary: Alan Anderson, Bowie State U; Treasurer: Stefanie Sherrill, US PTO

**Managers:**

Through 2013: Alan Ehrlich, Stein IP, LLC; Catherine Fenselau, UMD; Zory Glaser, JHU; Ajay Mallia, Georgetown U; Kelli Golanoski, UMD; Wayne R. Wolf, USDA  
Through 2014: Christopher Avery, US DOE; Nicole Bolden, US DEA; Robert Brennehan, Montgomery College; Deana Jaber, Marymount U; J. Faye Rubinson, Georgetown U; Michael Wagner, GWU

**Councilors:**

Through 2013: Joseph Antonucci, NIST; Carol Henry, GWU; Bhushan Mandava, consultant  
Through 2014: Regina Cody, NASA; Jennifer Tanir, HESI Global; Robert Wiacek, Pixelligent Technologies  
Through 2015: Elise Ann Brown, USDA (ret); Michael Doyle, UMD; Kim Morehouse, FDA

**Alternate Councilors:**

Through 2013: Fred Metz, EPA; Amy Mullin, UMD; Jason Schaff, FBI  
Through 2014: Philip DeShong, UMD; Monika Konaklieva, American University; John Ruth, USDA (ret)  
Through 2015: Dennis Chamot, NAS; Daron Freedberg, FDA; John Malin, ACS (ret)

**Nomination Instructions**

1. Use the nomination form below, a copy of the form, or submit the requested information using a sheet of paper and labeled "Nomination Form" by mail or electronically. Send completed form by e-mail to [csw@acs.org](mailto:csw@acs.org) or by mail to the CSW office at: Chemical Society of Washington, (CSW); Attn: Chair, Nominations Committee; 1155 16th St., NW, O - 218; Washington, DC, 20036.
2. For each nomination, indicate the corresponding office, name of the nominee, and the nominee's telephone number or email address, if known. **IMPORTANT:** If you have determined that the nominee is a CSW member and is willing to be a candidate, please indicate this next to the candidate's name.
3. Please submit your form in time to arrive by June 17, 2013.

2013 CSW Nominations Form – Nominations are invited for the following offices/positions (numbers of positions to be filled shown in parentheses). President-Elect (1); Secretary (1); Councilors, including Alternate Councilors (6); Managers (6).

**For Each Nominee:** please indicate the office or position, the name of the nominee, whether the nominee is a CSW member and is willing to be a candidate, and, if known, the telephone number (including area code) and e-mail address of the nominee.

Office/Position: \_\_\_\_\_ Phone: \_\_\_\_\_

Name of Nominee: \_\_\_\_\_ E-mail address: \_\_\_\_\_

Willing to run (y)? \_\_\_\_\_

## 2013 CSW High School Chemistry Olympiad

Contributed by Regina Cody

The U.S. Chemistry Olympiad is an annual program for high school students that has been organized by the American Chemical Society (ACS) since 1984 and is conducted through the Local Sections. The CSW has participated in the U. S. Olympiad each year. CSW conducts its Chemistry Olympiad in two levels; the first level is the Local Section examination and the second level is the U.S. National Examination in April. For the National Exam, ACS allotted the CSW nineteen student places based upon the Section membership with the rule that a maximum of two students can be from one school.

CSW used the Local Section examination purchased from ACS to select the 19 students to take the National Exam, and we asked high school chemistry teachers to select up to fourteen students for this purpose. The Local Section exam is a multiple choice of 60 questions. Teachers from sixteen high schools selected a total of 148 students. Nine of the high schools were in Maryland, five were in Virginia, and two, both private, were in Washington, D.C. From the results of the Local Section exam, the 19 students from 11 schools were selected to take the U. S. National Exam for the CSW, and it was given on April 11th at the Department of Chemistry of the Catholic University of America. Additionally, a 20th student, Kalki Seksaria, automatically qualified for the National Exam because he had attended the Study Camp in 2012. The National Exam consists of three separate parts, one written multiple choice, one written essay response, and one laboratory practical. The ACS has a separate grading site to grade the National exam. The students are to be commended for their strong interest in chemistry and endurance because the National Exam day starts with registration at 8:30 am and the last exam ends around 3:45 pm with short breaks between exams and for lunch. CSW provides a continental breakfast and lunch.

This U. S. National Exam was given in the time period of April 11-15 across the U.S. to about 1000 students. The 20 students who score the highest on the National Exam are invited by ACS to the Study Camp, which will be held June 4-19 at the Air Force Academy in Colorado. The U.S. team of four students and two alternates for the International Chemistry Olympiad will be selected from the 20 students at the Study Camp. The 45th International Chemistry Olympiad will be held July 15-24 in Moscow, Russia. **Congratulations to Kalki Seksaria of Thomas Jefferson High School for Science and Technology for being invited to attend the Study Camp for the second year!**

The CSW thanks very much the individuals who gave generously of their time and knowledge to make the CSW U.S. National Examination day possible: Dr. Greg Brewer, Department of Chemistry Chairman, Catholic University of America; Ms. Kate Sosinsky, Laboratory Manager, Catholic University of America (and her student assistants); Dr. Robert N. Nelson, Retired, who has helped with the Olympiad Laboratory Practical for a number of years; Dr. Elinor Santor, Retired, who helped proctor and assisted with the food; Mr. Xu Duan, chemistry teacher at Holton-Arms School, who took care of the breakfast-lunch room; and Ms. Doris Anne Martin, Retired, who did the grocery shopping.

The twenty students who took the U. S. National Exam on April 11th for CSW are listed in the table on page 9 along with their teachers and high schools.

### Weisberger, Continued from Page 4

*of importance in chemical carcinogenesis.*

*In addition to her extensive and outstanding experimental work resulting in more than 270 publications Betsy has made valuable contributions to the hazard identification of carcinogens. Betsy and her husband John were given the responsibility for developing a contract program to evaluate environmental, industrial and naturally-occurring compounds for possible carcinogenic activity. Her emphasis was on the development of systems for evaluating carcinogenic risks and in the selection of compounds for evaluation of potential carcinogenicity. Betsy also was among the first scientists to evaluate several compounds using in cancer chemotherapy for carcinogenic activity and to discuss their benefits and potential risk.*

*Betsy has received many honors including the Meritorious Service Medal and the Distinguished Service Medal from the U.S. Public Health Service, the Hillebrand Prize and the Garvan Medal from the American Chemical Society. She was selected as a member of the inaugural class of Fellows of the American Chemical Society in 2009. The Advanced Organic Chemistry Laboratory at Lebanon Valley College (in a new science building) was named after her. She received an honorary Doctor of Science from the Lebanon Valley College and from the University of Cincinnati. For her excellent contributions to all aspects of traditional toxicology and regulatory toxicology and for development of toxicology concepts that have influenced and improved regulatory policies it is highly appropriate and an honor for The Toxicology Forum to present Dr. Elizabeth K. Weisburger with the Philippe Shubik Distinguished Scientist Award for 2013.*

The blanket is back  
for 2013!



Click here to find out  
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[www.acs.org/2MGMblanket](http://www.acs.org/2MGMblanket)



## Chemistry Olympiad, cont. from Page 8

Student	Chemistry Teacher	High School	City, State
Nyrah	Humayun Xu Duan	Holton – Arms School	Bethesda, MD
Maya	Sorini Xu Duan	Holton – Arms School	Bethesda, MD
Leah	Surratt Leah Puhlick	Langley High School	McLean, VA
Katherine	Tan Leah Puhlick	Langley High School	McLean, VA
Arvind	Kannan Tran Pham	Montgomery Blair High School	Silver Spring, MD
Alexander	Bourzutschky Tran Pham	Montgomery Blair High School	Silver Spring, MD
Skylar	Lovett Laura Slocum	National Cathedral School	Washington, D.C.
Matthew	Gherman Prasad Gerard	Poolesville High School	Poolesville, MD
Dhruv	Shankar Prasad Gerard	Poolesville High School	Poolesville, MD
Julia	Zheng Jennifer Yeck	Quince Orchard High School	Gaithersburg, MD
Alexander	James Laura Barrosse-Antle	Sidwell Friends School	Washington, D.C.
Matthew	Katzman Laura Barrosse-Antle	Sidwell Friends School	Washington, D.C.
Kalki	Seksaria Hadan Kauffman	Thomas Jefferson High School for Science and Technology	Alexandria, VA
Janice	Ong Hadan Kauffman		
Emily	Schneider Hadan Kauffman		
Lawrence	Harari Brett Bentley	Thomas S. Wootton High School	Rockville, MD
Alexander	Mazze Brett Bentley		
Linhchi	Nguyen Mei Wang	Walter Johnson High School	Bethesda, MD
Christian	Sanders Mei Wang	Walter Johnson High School	Bethesda, MD
Christian	Dolliff Stacy Brasfield	Washington-Lee High School	Arlington, VA

**Speaker Abstract, cont. from page 1**

Therefore, a strong, balanced energy portfolio, based on the most efficient use of our natural resources, while minimizing our dependence on imported energy, is critical to the U.S. The science and technology being developed to address this will be reviewed.

How rapidly we incorporate renewable energy resources in the mix and whether we create the resulting companies and jobs in the U.S. depends on the economics relative to conventional resources. How the economics plays out depends on whether the public believes in climate change science and puts a price on carbon.



**Have a great summer!**

The next *Capital Chemist* will be published in September.

## Green Chemistry Innovations in Your Backyard! Join us at the 17th Annual Green Chemistry & Engineering Conference – June 18-20, 2013

Contributed by Jennifer Young Tanir

Explore green chemistry and engineering advancements that will help us meet the challenges of the 21st century and design for a sustainable future during the ACS Green Chemistry Institute®'s annual conference on June 18-20, 2013. The conference will be held at the Bethesda North Marriott Hotel and Conference Center, easily accessible from the Metro's Red Line.

This year, more than 20 technical sessions will be offered, covering topics such as alternatives to critical chemicals facing sustainable supply chain constraints, corporate use of LCA's, green chemistry and the EPA's Toxic Release Inventory, and new developments in green chemistry education. (A complete program is located on the conference website.) Keynote speakers include Dr. Volker Schaedler, VP Innovation & Technology North America at BASF, Jim Hutchison, Professor of Chemistry at the University of Oregon, and Dr. Milton Hearn who established the new \$100+ million Green Chemical Futures at Monash University in Australia.

Several workshops will be offered in and around the conference: Students registering for the conference can take advantage of a student workshop on Monday, June 17, at the ACS headquarters in Washington, DC. Chemists and engineers interested in starting a company will find the GC&E Business Plan Workshop on Wednesday, June 19, helpful—it's a full day of targeted discussions designed to facilitate an understanding of the best practices and trends for chemical entrepreneurs in creating a business plan, pitch, and term sheet. Finally, a career workshop will be held the evening of Wednesday, June 19 for those just getting into their career or looking to accelerate their professional development.

Whether you come for one day or three, don't miss this opportunity to network with colleagues and hear some of the cutting-edge innovations in green science today!



### Project SEED Needs Your Support!

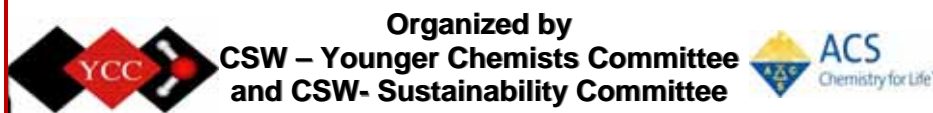
Project SEED cannot operate without the help from individuals and companies that support the Scientists-in-training. Are you interested in supporting Project SEED? Last year we unfortunately turned away many applicants because of lack of funding. CSW has established the Noel Turner Memorial Fund to help support Project SEED. Your donation will be used for student stipends (\$2500 for the SEED-1 and \$3000 for the SEED-2 program). Your contribution is fully tax deductible. For more information, Ajay Mallia, Project SEED Coordinator, can be reached by email at [vajaymallia@gmail.com](mailto:vajaymallia@gmail.com), or you may contact CSW at [csw@acs.org](mailto:csw@acs.org), or by phone at 202-659-2650.



### Volunteers Needed for Anacostia Environmental Youth Summit

CSW will participate in an outreach event at the Anacostia Environmental Youth Summit (AEYS organized by District Department of Environment) on May 31, 2013 (from 9:00am-2:30 pm) at Anacostia Park, Washington DC. Volunteers from CSW will be providing hands-on activities to ~450 high school students. Our main aim will be to educate the students about air and water pollution and explain about greenhouse gases and oil spills with some demonstrations. If you would like to volunteer for this event, please contact Dr. Ajay Mallia (YCC coordinator, [vajaymallia@gmail.com](mailto:vajaymallia@gmail.com)).


For additional details about AEYS, please visit: <http://green.dc.gov/service/anacostia-environmental-youth-summit>.



## BUSINESS DIRECTORY

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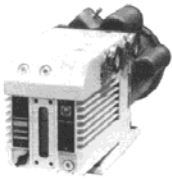
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The Capital Chemist will not be published in June, July, and August, but please keep up with your CSW news by visiting our website at [sites.csw.acs.org!](http://sites.csw.acs.org)



**Have a great summer!**



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