

February CSW Dinner Speaker, Dr. Eric Lin, Rescheduled for April

Dr. Eric K. Lin, Chief of the Polymers Division of the Materials Science and Engineering Laboratory, National Institute of Standards and Technology (NIST), will speak on the subject “Advancing Technology through Measurement Science: From Next-generation Electronics to Biomaterials” at the CSW February dinner meeting at the Stamp Student Union, University of Maryland, in College Park. The address will be preceded by an achievement awards ceremony for college students. Details of the dinner meeting are on page 2.

Dr. Lin’s scheduled appearance at the February CSW meeting was cancelled due to the massive snow storms that struck the DC area in early February.

Dr. Lin is Chief of the Polymers Division in the Materials Science and

Engineering Laboratory at the National Institute of Standards and Technology (NIST). He received a B.S.E. from Princeton University in 1991 (summa cum laude) and Masters and Ph.D. degrees from Stanford in 1992 and 1996, respectively, all in chemical engineering. Eric joined the NIST Polymers Division as an NRC-NIST postdoctoral associate in 1996, and joined the permanent staff in 1998. In 2002, he became the Leader of the Electronics Materials Group, where he established world class research programs in semiconductor electronics processing, nanoscale materials, and organic electronics. His expertise and research interests include polymer thin films and interfaces, neutron and x-ray scattering methods, and the statistical mechanics of polymer materials. His awards include NIST Bronze and Silver



Medals, the NIST Slichter Awards, the Presidential Early Career Award for Scientists and Engineers (PECASE), and a participation in the National Academy of Science Kavli Frontiers of Science program. (Please see abstract of seminar, page 3.)

Chemists Celebrate Earth Day with Theme “Plants - The Green Machines”

Earth Day is April 22, 2010 and CSW will once again participate in Chemist Celebrate Earth Day (CCED) activities. K-12 students are encouraged to compete in the Illustrated Poem Contest (see below). Student affiliates and ACS members are encouraged to participate by reducing your carbon footprint and informing the public about ways to lower their carbon foot print (see below). The CCED publication, “Celebrating Chemistry,” for K-8 grade is available via the ACS website (www.acs.org/earthday).

Volunteers Needed CSW, in conjunction with the chemistry department from Montgomery College, Rockville Campus will participate in Rockville Science Day on Sunday, April 25, 2009. Volunteers from CSW will be providing hands on activities for children who attend the event as a part of CSW’s participation in CCED. Volunteers will also hand out copies of the Celebrating Chemistry publication for CCED, and various CCED themed products. If you would like to volunteer for this event, please contact the

CSW CCED coordinator, Kim Morehouse at the email address Kim.Morehouse@fda.hhs.gov.

Additional activities, as they are planned, will be posted on the CSW website so be sure to check the website.

Where is your green machine? The 2010 Unifying Event for CCED is planting your green machine. Local Sections may celebrate the chemistry of and uses of plants, by planting their own green machines. Local Section Members are encouraged to place a short summary of their 2010 CCED outreach activities onto the ACS Network and Facebook! We would also like to post pictures on the CSW website as well, so please let the CSW CCED coordinator know about your plants. Information that you can use to help with this are available via the ACS CCED webpage.

Illustrated Poem Contest

Students are asked to write and illustrate a poem using the Chemists Celebrate Earth Day 2010 theme, “Plants – The Green Machines.” Detailed rules (*continued, page 6*)



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Claims for missing issues should be sent to CSW at the above address. Member change of address should be sent to ACS, PO Box 3337, Columbus, OH 43210; phone 800-333-9511; e-mail: service@acs.org; or edit member profile online at www.acs.org.

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THE CHEMICAL SOCIETY OF WASHINGTON PRESENTS: 1094th Dinner Meeting

Thursday, April 15th
Stamp Student Union
University of Maryland
College Park, MD

6:00 pm Check in and social
6:30 pm Dinner
COST \$30.00 Members & guests
\$15.00 Students

Menu includes: Classic Caesar Salad, Tuscan Chicken (Grilled Chicken on a Bed of White Beans, Diced Tomatoes and Oregano), Penne Pasta with Sun-dried Tomatoes and Creamy Pesto Sauce, Oven-Roasted Umbrian Vegetables, Marinated Fresh Mozzarella and Tomato tossed in Olive Oil with Fresh Basil, Focaccia, Ciabatta, and Bread Sticks. Dessert: Tiramisu Torte. Includes Iced Tea, Freshly Brewed Coffee (Regular and Decaffeinated), and Hot Tea

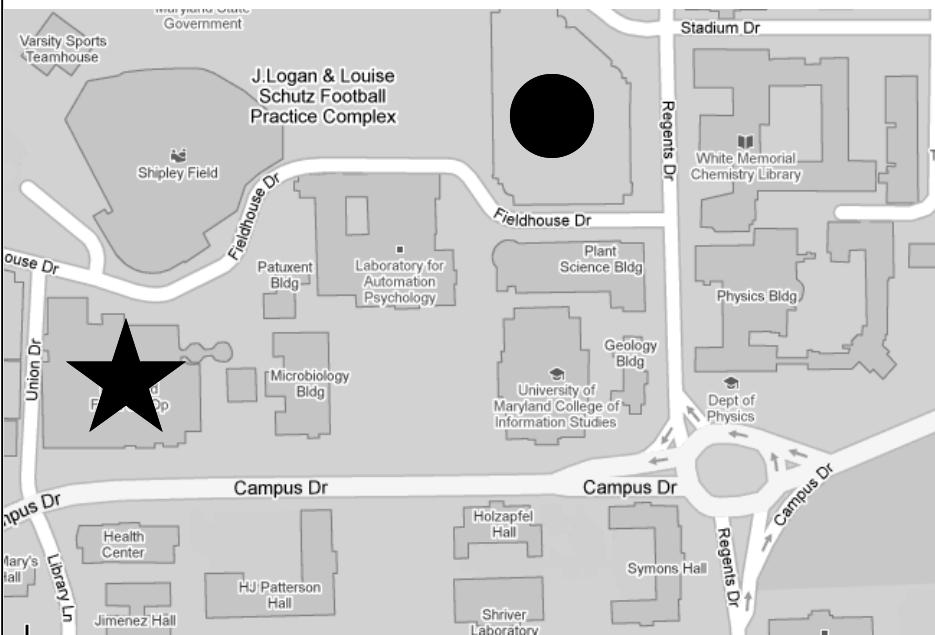
Make reservations by **Monday, April 12, 2010, 12:00 noon**, to the CSW office: csw@acs.org or 202-659-2650. Please designate the names in your party. The public is invited to attend. You may attend the talk only, but reservations are appreciated. **Those who make a reservation but are unable to attend should send a check for the cost of their meal to the CSW office.**

Directions: From Baltimore Ave. (US Hwy 1), enter campus using Campus Dr. At the traffic circle, bear to the right onto Regents Dr. Parking is available in the parking garage (marked with circle on map) that is across from the Chemistry building and a short distance from the Student Union (marked with a star on map). Parking is unrestricted after 4:00 pm. Campus Dr. is also accessible from University Blvd. or Adelphi Rd., on the west side of campus.

METRO: Green Line to College Park. The University runs a free shuttle bus from the College Park Metro Station. The bus stops at the Student Union. If you need a map, you can get one from the Maryland website, www.umd.edu.

7:30 College Achievement Awards Presentation

8:00 p.m. Featured Speaker: Dr. Eric K. Lin, Chief of the Polymers Division of the Materials Science and Engineering Laboratory, NIST
Title: Advancing Technology through Measurement Science: From Next-generation Electronics to Biomaterials





CSW Hillebrand Award winner Dr. James Butler (l) receives the award certificate from Michael Doyle, CSW President-elect

Abstract of CSW Dinner Meeting Presentation

Abstract: The advancement of many important technologies for economic growth in the US is dependent upon the availability of the technical infrastructure. For example, the spectacular success in the transformation of semiconductor technology into an industry was aided by technical developments in electron microscopy, advanced electrical measurements, and lithographic process control. The mission of the NIST is to promote US innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life. To meet this mission, NIST engages in world-class measurement science to provide the fundamental science and tools needed to advance technology.

The Polymers Division at NIST has a broad range of activities that span topics from next-generation electronics to nanotechnology to biomaterials. In this talk, a few distinct topics will be presented to provide an overview of how measurement science developed at NIST advances technology in semiconductor lithography, organic electronics, and biomaterials.

Organic Electronics: In the emerging organic electronics industry, one key problem is control over the structure and orientation of the organic semiconductor at the semiconductor-dielectric interface. For organic transistors, all of the charge transport occurs within several nanometers of this interface and device performance is strongly dependent upon the structure and morphology of the material. Using near-edge x-ray absorption fine structure (NEXAFS) spectroscopy, we quantify and elucidate the formation of interfacial order and correlate the results with device performance for several types of organic semiconductor materials. **Biomaterials:** Transformation of tissue engineering from a largely basic research endeavor with acellular products to a sustainable industry with complex cell and tissue based medical products requires new tools, substrates and methods which afford characterization of cell phenotype and state during the differentiation, expansion and manufacturing processes. We address technology gaps by providing the required tools and methods; generating surfaces that induce specific cellular behaviors and tools for capturing the signaling events related to those behaviors in situ.

Nominations for CSW Schubert Award Now Being Accepted

CSW seeks nominations for the Leo Schubert Memorial Award for the outstanding teaching of high school chemistry. Nominations must be received by June 1, 2010. Nomination information and forms can be requested from the CSW office (address on page 2) or by emailing csw@acs.org. Please submit nominations, preferably by e-mail, to the CSW office. If you have any questions about the nomination, please contact Dr. John M. Malin, at jmalin023@verizon.net.

CSW established the award in 1979 to honor Dr. Leo Schubert who passed away that year. Dr. Schubert devoted much of his career to developing programs for high school teachers and students. The award consists of an honorarium (\$500) and a certificate which will be presented at the December CSW dinner meeting. Nominations for the award must be comprehensive and include details such as innovation in teaching, writing curricula, outside teaching, papers published, involvement in science fairs and post graduate study. Each year's Leo Schubert Award honoree becomes CSW's candidate for the forthcoming Middle Atlantic Regional Meeting High School Teaching Award.

Be Sure to Attend MARM 2010 and 2011

The 41th Middle Atlantic Regional Meeting (MARM 2010) will be hosted by the ACS Delaware Section and held on April 10-13 at the historic Hotel du Pont, in Wilmington, DE. The theme of the meeting is "Chemistry in the First State." Visit the MARM 2010 web site, <http://www.marmacs.org/2010/index.html>, to view general information, technical program, etc. And, **CSW will host MARM 2011!**

ACS Webinars, a Free Online Service to Members and Professionals

ACS Webinars is a weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in chemical sciences, management, and business. The ACS Webinars are divided into several series that addresses topics of interest to the chemical and scientific community; these series include careers development, professional growth, small & medium business, green chemistry, and executive view. Each webinar is 60 minutes in length, comprising a short presentation followed by Q&A with the speaker. The live webinars are held on Thursdays from 2-3 pm ET and recordings of the past webinars are available online. Upcoming events are at http://boilthisdown.org/?page_id=385

Creating a Successful Career in Public Policy and the Chemical Industry – Lessons Not Taught in Classrooms. Have you ever wondered how policies that affect directions in science and research are made? Would you like a career that helps shape science policy? From stem cells research to climate change, these scientific issues are as much driven by policy decision as scholarly research. Our speaker will share her observations of policy making in the chemical industry and give you an insightful glimpse into the decision process. Join us to learn about science policy and how you can prepare for a career in that field.

ACS Webinars: Your Career Matters! Series – Thursday, April 8, 2010, 2:00-3:00 PM ET; free registration and more information online at <https://www2.gotomeeting.com/register/894562635>

US Immigration for Foreign-born Scientists – What You Should Know about Employer-Sponsored and Self-

Petitions for Green Cards. What do foreign-born scientists, technology entrepreneurs, and investors need to know to legally work in the US? How can one gain path to citizenship as a scientist? Foreign-born scientists and scholars have and continue to contribute to the technical wealth and economic growth in the US. According to 2005 ChemCensus, about twenty percent of chemical professionals are foreign-born. Learn from our speaker the various US immigration avenues available for scientific and technical professionals.

ACS Webinars: Professional Growth and Development Series – Thursday, April 15, 2010, 2:00-3:00 PM ET; free registration and more information online at <https://www2.gotomeeting.com/register/382353915>

Raising Capital with Angels: What They Don't Tell You at Business School. Do you know what it takes to raise capital in this economic environment? Raising capital is an important life blood for entrepreneurs and small businesses, yet the process is often a black box. Learn from our speaker strategies to raise smart money and avoid the pitfalls of fools money. Join us to explore the ins and outs of raising funds and building a successful marriage with your investors. This is a must attend event for entrepreneurs, scientific professionals, investors and business leaders who are interested in learning about capital raising and angels financing.

ACS Webinars: Small & Medium Business Series – Thursday, April 22, 2010, 2:00-3:00 PM ET; free registration and more information online at <https://www2.gotomeeting.com/register/917951850>

Success Factors for a Consulting Practice in Chemistry. Thinking about being a consultant? Independent scientific/technical consulting is a fast growing career option undertaken by many chemical professionals. But do you know what it takes to build a successful consulting practice? To be a successful consultant, you need to know who needs your expertise, how to sell your expertise, and what legal constraints you may encounter along the way. Join us as our speaker shares his two decades of experience building a successful scientific consulting career.

ACS Webinars: Small & Medium Business Series – Thursday, April 29, 2010, 2:00-3:00 PM ET; free registration and more information online <https://www2.gotomeeting.com/register/566989659>

ACS Publications from DC Area Research Groups

This feature of *The Capital Chemist* is a compilation of selected publications in ACS journals, appearing recently, from area institutions.

Ruchika Malhotra‡, Vyomesh Patel‡, Jose Pedro Vaqu‡, J. Silvio Gutkind‡ and James F. Rusling*† (2010) “Ultrasensitive Electrochemical Immunosensor for Oral Cancer Biomarker IL-6 Using Carbon Nanotube Forest Electrodes and Multilabel Amplification,” *Anal. Chem.*, Article ASAP (Accelerated Article), Publication Date (Web): March 1, 2010. (‡ - National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD; † - University of Connecticut)

Dorothy Farrell‡, Joe Alper, Krzysztof Ptak‡, Nicholas J. Panaro§, Piotr Grodzinski†* and Anna D. Barker‡ (2010) “Recent Advances from the National Cancer Institute Alliance for Nanotechnology in Cancer,” *ACS Nano* (Nano Focus), **4** (2), pp 589-594. († - Center for Strategic Scientific Initiatives, National Cancer Institute, Bethesda, MD; § - Nanotechnology Characterization Laboratory, SAIC-Frederick Inc., Frederick, MD; ‡ - Office of the Director, NCI, Bethesda, MD)

Stefan Wiese, Pooja Kapoor, Kamille D. Williams and Timothy H. Warren* (2009) “Nitric Oxide Oxidatively Nitrosylates Ni(I) and Cu(I) C-Organonitroso Adducts,” *J. Am. Chem. Soc.*, **131** (50), pp 18105–18111. (Department of Chemistry, Georgetown University, Washington, DC)

CSW Retired Chemists' Group to Tour Anderson House, Historical DuPont Circle Mansion, for April Luncheon Event

The 67th CSW Retired Chemists' Group Luncheon will be held at Scion Restaurant in the DuPont Circle area of Washington on Wednesday, April 28. The group will then tour the Anderson House, home of The Society of the Cincinnati.

Larz Anderson, a US diplomat, and his wife Isabel had this Beaux Arts mansion built during America's Gilded Age, for the purpose of entertaining American and foreign dignitaries during the months of January through April. The interiors are dominated by English and Italian influences, and feature carved wood walls, murals, gilded ceilings, ornate iron work, and intricate marble floors. The Andersons, wealthy Bostonians, assembled a collection of furnishings and works of art that reflected the couple's interests. Most of the collection is still there.

After Larz' death in 1937, Isabel gave the mansion to the Society of the Cincinnati, of which Larz had been an

active member. In 1939 it became a museum, library, and the headquarters of The Society of the Cincinnati, the oldest private patriotic organization in the United States. This Society was founded in 1783 by American officers of the Continental Army and Navy and their French counterparts to preserve the ideals for which they fought. The Society's library collects, preserves, and makes available for research printed and manuscript materials relating to the military and naval history of the 18th century, concentrating on the American Revolution. More information is available at:

www.societyofthecincinnati.org.

- Restaurant: Scion, 2100 P Street NW, DC. 202-833-8899.
- Social: 11:30 AM, with cash bar.
- Meal served: 12 noon
- Menu: Simple Salad; 1) Crab Cake with Hand-cut Herb Garlic Fries, 2) BBQ Duck Bun with Veggie Straws, or 3) Turkey meat loaf

with Mashed Potatoes. Dessert: Chocolate Mousse or Cheesecake. Soft drinks, coffee, and tea are included with the meal.

- Cost: \$25.00
- Tour: 1:00 PM; the Anderson House is a few minutes walk from the restaurant.

For reservations, checks must be received by April 24, 2010, made out to Retired Chemists Group or RCG, and sent to Dr. Paul Terry, 3102 Craiglawn Rd, Beltsville, MD 20705.

Please be certain to give the name of everyone attending, their choice of entrée, dessert, and contact telephone number. If you have questions call Paul on 301-572-5362.

Directions: Go by Metro (Red line) and exit at DuPont Circle Metro Station. Go up the escalator to the 20th St. and Q St. intersection, walk down Q St to 21st St, turn left and walk down 21st St. Cross Massachusetts Ave. and continue to P St. Cross P St. and turn right. You will see the "Scion" restaurant on your left. Parking in this area is very expensive.

The Retired Chemists Group offers a social program of luncheons and outings available to all. Check the new web site:

<http://csw.sites.acs.org/rcg.htm>

DC Area Chemistry Seminar Schedules

Listed below are chemistry-related seminar schedule web sites from area universities, that were up-to-date as of press time. More will be posted as they become updated. Contact the department to find out about general public admission, directions to campus, and parking. ***Viewing the PDF? Just click!***

Carnegie Institution of Washington: <http://www.gl.ciw.edu>

Georgetown Chem: <http://chemistry.georgetown.edu/news/seminars.html>

GMU Chem: http://chemistry.gmu.edu/seminar/seminar_spring2010.html

GWU Biochem: <http://www.gwumc.edu/biochem/biochemevents.html>

GWU Chem: <http://www.gwu.edu/~gwchem/seminars.cfm>

Maryland Biotechnology Institute: <http://www.umbi.org/home.php>

Maryland Chem: <http://www.chem.umd.edu/seminars>

Maryland Chem Eng: <http://www.chbe.umd.edu/events/seminars.html>

Maryland Chemical Physics:

http://www.chemicalphysics.umd.edu/10_seminars.htm

DC Area Chemistry Seminars: Editor's Choice

Check web sites for times and locations.

Maryland Chem: Professor Gerhard Wagner, Harvard Medical School, Title TBA, April 9.

GWU Chem: Dr. Madeleine Joullie, University of Pennsylvania, "Synthetic Studies of Heterocyclic Natural Products," April 23.

CSW Calendar

CSW Board Meeting

Monday, May 17, 2010

Location: ACS Hach (formerly Headquarters), Washington, DC

Nominations for the 2010 ACS

Fellows are due May 7

Student applications for Project SEED are due June 1

Project SEED Applications Now Available; Submissions Due in May

CSW will be participating in the ACS 2010 Project SEED Program, funding 9 students with mentors. This program places economically disadvantaged high school students in a variety of research environments (academic, industrial, and governmental) for a period of eight-to-ten weeks during the summer months. For the past 41 years, Project SEED has helped high school students expand their education and career outlooks by providing opportunities for students who historically lack exposure to scientific careers.

Under Project SEED, high school students participate in a scientific research project in chemistry under the direct supervision of a mentor scientist. If selected, these students are offered two exciting research opportunities:

- The Summer I program will provide first-time participants (rising

juniors and seniors) a fellowship award of \$2,800.

- The Summer II program will provide Project SEED Summer I students with an additional summer of scientific research. These students will receive a fellowship award of \$3,300. Additionally, Summer II students will be eligible for travel grant of up to \$100 to present their research at an ACS or other scientific meeting contingent on availability of funds.

High School science teachers are

Chemists Celebrate Earth Day Events in April

(continued from page 1) and guidelines are available on the Chemists Celebrate Earth Day website; www.acs.org/earthday.

Students in the CSW area should send their illustrated haiku entries to:

Chemist Celebrate Earth Day Coordinator

needed as sponsors to identify excellent chemistry students to participate in Project SEED and assist in the application process. These students must be economically disadvantaged (family income for 2008 or 2009 of less than \$50,000), must be enrolled in high school and must have taken one year of high school chemistry. Applications and financial statements are due to Dr. Walter Benson on May 30, 2010 (WBenson270@aol.com). See web site www.acs.org/projectseed.

Chemical Society of Washington
1155 16th Street, NW, Stop O-218
Washington, DC 20036

Electronic submissions should be sent to: Kim.Morehouse@fda.hhs.gov.

All entries must be received by Monday, April 5, 2009 so winners at the local section level can be submitted to the ACS by Friday, April 9, 2010.

Electronic *Capital Chemist* Under Consideration

(continued from page 8) member comments on electronic distribution of *The Capital Chemist*. However, we have received only 13 responses. Of these, 10 were positive about electronic distribution. The others were in favor of continuing to receive a printed copy of the newsletter. More member comments are wanted and may be sent to csw@acs.org or by telephone (202-659-2650).

CSW Examines Implementing Electronic Voting

Zory Glaser, CSW Publications Committee

As noted in previous issues of *The Capital Chemist*, CSW is considering publishing an electronic/computer-accessible version of the newsletter. Concurrently, the CSW is considering conducting the annual election of Society officers, councilors, and members of the Board of Managers ("Board") by computer ballot. Many professional/ technical societies (including the ACS, and a number of ACS Divisions and local sections) have successfully converted to a ballot which can be completed and submitted by the individual member using their computer. CSW has communicated with a number of the ACS divisions and local sections that have introduced their annual voting to the electronic/computer-accessible ballot format. In addition to experiencing an increase in the number of valid ballots completed, submitted and successfully tabulated, most of the groups contacted report significant member satisfaction, and that an overall cost savings has also been experienced.

The CSW Board has directed that the relevant issues be examined in greater detail, and that input from the membership on the issue of electronic balloting be solicited. A task group of Board members has been formed. Your comments and thoughts can be provided to Zory Glaser, electronically at Z.Glaser@Juno.com, or by regular mail to 12708 Weiss St., Rockville, MD 20853-3437.



The advertisement features a large graphic of several interlocking puzzle pieces in shades of gray. In the top right corner, the EMD logo is displayed, consisting of the letters 'EMD' in a stylized font with vertical bars of varying heights behind them. Below the puzzle pieces, the text 'Solvents Salts Acids Solutions' is written in a clean, sans-serif font. At the bottom of the advertisement, the slogan 'We have all the pieces...' is written in a smaller font, followed by the website address www.emdchemicals.com/analytcs.

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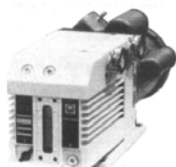
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Please visit www.ida.org to learn more about us. To apply, e-mail your resume to <http://jobs-ida.icims.com/jobs/1223/job>, specifying Capital Chemist. In addition to openings for PhDs we also have paid summer internships for rising seniors and grad students. IDA is proud to be an equal opportunity employer.



CAREER SERVICES

RECRUITING WEB SITE LISTING DIRECT TO YOUR SITE

There are two important ways to recruit through our services. One is to place a print ad in the Capital Chemist. The other is to place a web site ad reaching out to 40,000 ACS members. We recommend using both low cost methods.

You can view both of these opportunities by going to the link below.

Who uses these options?

- Companies for lab, management and sales personnel
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ACS Fellows Program Accepting Nominations Through May

After a very successful first year, the ACS Fellows Program is open for nominations for 2010 Fellows. **Nominations will close on Friday, May 7, 2010.** Program materials, including a nomination form, eligibility requirements, and instructions for submitting a nomination, are available at www.acs.org/fellows.

Nominees for ACS Fellows must be current members in good standing of the ACS. To be selected as an ACS Fellow, a member must have demonstrated excellence in the science/profession and provided outstanding service to the ACS. There must be evidence of exceptional accomplishments and professional attainment in one of the areas with significant contributions in the other.

Nominations for Fellows will be solicited through multiple sources, including technical divisions, local sections, ACS committees, and individuals. Each local section may nominate up to the number of councilors from the local section. The primary nominator must be an officer or councilor of the section. However, secondary nominators need not be from the section. If the chair is not the primary nominator, he or she must provide written endorsement of the nomination. Each primary and secondary nominator must submit a letter of recommendation in support of the nomination. Self-nominations will not be accepted.

Fellows will be selected by a broadly representative Selection Committee appointed by the Board Committee on Grants and Awards.

Additional information on the ACS Fellows Program can be obtained by visiting www.acs.org/fellows or by sending an email to fellows@acs.org.

CSW Pubs Committee Considers Electronic Newsletter

Noel Turner, CSW Publications Committee Chair

With about 85 percent of CSW's 4150 members having internet access, electronic distribution of *The Capital Chemist* offers many possible advantages. CSW's current budget for *The Capital Chemist* is about \$25,000 per year, with advertisements covering about 35 percent of this amount. Printing and mailing are the bulk of the cost; thus, significant saving using electronic distribution would result. Some other large ACS local sections and divisions send their publications electronically, or are planning to do so soon. Those with advertisements have not found any significant change with revenue source. There are other advantages, such as issues not being delayed or lost in the mail, color and enhanced graphics being available in the electronic version, and being more "green".

There are some issues that have to be addressed in a conversion to electronic distribution, especially for those without internet access. Some sections have made an additional charge for those requesting a paper copy, since reduced paper publication increases the per copy cost. For example, printing and mailing 100 copies would cost about \$20 per paper recipient per year and 500 copies would cost about \$10 per paper recipient per year. If only a few members wished to receive a printed version, it probably would be more efficient to hand print and mail them. Since nomination forms and election ballots have traditionally come from the printed newsletter, the manner of nominations and elections needs to be addressed (more, page 6). These are some of the issues that the Publication Committee is currently discussing.

In the past few months there have been two requests for *(continued, page 6)*

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(USPS 556-400)
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Section of The American Chemical Society
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CSW: Celebrating over a Century of Service to Washington DC Area Chemists