

# THE CAPITAL CHEMIST



A Publication of the Chemical Society of Washington Section of the American Chemical Society

## CSW 50- and 60-Year Member Appreciation Luncheon

CSW will hold a luncheon celebrating our 50- and 60-year members at noon on Saturday, November 14, 2015. If you would like to attend, please RSVP by Friday, November 6, 2105 to [csw@acs.org](mailto:csw@acs.org), and indicate the number in your party.

### Luncheon Details

Timpano Italian Chophouse  
12021 Rockville Pike  
Rockville, MD 20852

### Cost

\$30.00 Members and Guests  
\$15.00 Students

### Parking Details

Timpano's is a free-standing building. There is easy parking directly around the restaurant.

### Menu

#### Soup or Salad (select one)

Watercress & Arugula  
Minestrone Soup

#### Entrée (select one)

Salmon Caesar Salad  
Pasta Bolognese  
Prime Top Sirloin  
Chicken Parmesan

Coffee, tea, iced tea, and soft drinks are included. Alcoholic beverages will be available for purchase.

## 50-Year Members

Mr. Robert Paul Barron  
Mrs. Lois Ann Beaver  
Mr. Paul Henry Bickart  
Dr. Francis John Biros  
Dr. Frank Peter Boer  
Dr. Robert Brien Callen  
Dr. Do Ren Chang  
Dr. Hao Chia Chen  
Mr. Tony Man Kuen Chiu  
Dr. Eugene Thomas Chulick  
Dr. Regina Jacqueline Cody  
Dr. Douglas M. Collins  
Mr. Frank Garnett Cowherd  
Mrs. Mary E. Cushmac  
Dr. Leon Ashby Dickson  
Dr. Edgar Silvester Etz  
Mr. Ford Franklin Farabow  
Dr. Henry L. Gabelnick  
Dr. Govind J. Kapadia  
Dr. Teddy M. Keller  
Dr. Michael M. King  
Dr. Lynn Alvin Larsen

Dr. Lester A. Lee  
Dr. John Michael Malin  
Dr. Richard I. Martinez  
Dr. Anthony Brian Mauger  
Dr. Stamatios Mylonakis  
Dr. Mary C. Rose  
Dr. Annette Rosenblum  
Mr. Clyde Asao Takeguchi  
Mr. Jeb S. Taylor  
Dr. Thomas Edmund Ward  
Dr. Wayne R. Wolf  
Ms. Janet S. Dodd

## 60-Year Members

Dr. Violet E.S. Baker  
Dr. Alan D. Lourie  
Mr. Americo Patrick Silveri  
Mr. Vito Anthony Cammarota  
Dr. Jacob Block  
Dr. Nora Tamberg  
Dr. Allan Henry Laufer

## Volume 65, Number 7 November 2015

### Featured Items:

- Celebrate our 50- and 60-year members
- Don't forget to vote!
- Do you know how ACS Leadership works?
- Last chance to nominate someone for the Gordon or Schubert awards, or the Hillebrand Prize!

### Inside this issue:

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Dr. Merrill M. Hessel  
Dr. Robert J. Fallon  
Mr. Michael Joseph Clifford  
Dr. Joseph Emmet Earley  
Dr. Elise Ann Brown  
Dr. Robert Virgil Hemm  
Dr. Charlotte Marie Kraebel

# Reminder: 2015 CSW Electronic Elections Procedures

*Contributed by Alan Anderson, CSW President*

The CSW Nominations and Elections Committee is proud to present an outstanding slate of candidates for the 2015 election. Candidate statements can be found on the *Capital Chemist* website at <http://www.capitalchemist.org/2015/09/2015-local-election-candidate-statements>.

By participating in our annual election you will play an important role in deciding the direction of the Chemical Society of Washington. Voting has begun, and is restricted to members of the Chemical Society of Washington. If you have not received a ballot, please contact us at [csw@acs.org](mailto:csw@acs.org).

## **Voting deadline:**

The deadline for voting is November 15, 2015 at 11:59 p.m. EDT. The internet voting system will shut down at exactly at 11:59 p.m. Eastern Daylight Time on November 15, 2015.

Results will be announced in the *Capital Chemist* December Issue.

We want CSW to be representative of its members, but we need your help! This is your chance to make your voices heard! Thank you in advance for your participation, and if you have questions about the voting process, contact us at [csw@acs.org](mailto:csw@acs.org).

# How Does ACS Leadership Work Anyway?

*Contributed by Chris Avery, Capital Chemist Editor-in-Chief*

I'm a total government nerd. I admit it, and I own it. Some of my need to understand how governments work comes from my mentality of being a scientist: I want to know how things work. I hate black boxes, and government can be one of the hardest black boxes to crack open.

Honest question: do you actually know how ACS leadership is structured or operates? More fundamentally: do you know who represents you, or what they do with the money you pay to be a member every year?

If you answered something like "I have no idea," you're not alone. In fact, you're probably in the majority. Virtually everyone I talk to who is an ACS member - but not involved in ACS governance - has basically no knowledge of how it all works. I certainly didn't, until recently.

Since it's October, it is also ACS election season. Very soon this month, you will get an email or letter in the mail asking you to vote for those people in charge of running our organization. In light of that, I wanted to give you some context for who you're being asked to vote for, and why that matters. Just like our country's government structure, there are national elections, and local elections. Both impact and influence each other, and you need to know about both.

## **National Elections**

When ACS says "national elections," what we are really saying "Board of Directors elections." The Board of Directors is the highest elected body in our Society. They have ultimate policy and fiduciary responsibility for the Society, and they ultimately employ ACS staff and ACS leadership. It's an incredibly important body in ACS governance.

The Board has 16 members. It is made up of the President, the President-Elect, the most recent Past President (all ex officios), six District Directors, one elected from each of six geographical Districts as provided in the Bylaws, and six Directors-at-Large. The Districts cover all the different ACS local sections (more on that in a minute), and each District elects a member from inside itself to sit on the Board. All six Districts vote for each Director-at-Large, and are technically elected by the ACS Council. The Executive Director & CEO is also a member of the Board, but is not able to vote.

*Continued on next page*

## ACS Leadership, Continued

We in CSW are represented by [District III](#).

District III is currently represented by Pat Confalone, who is also the Chair of the Board. We don't have a District Director election this cycle, but we do have At-Large elections to consider.

[You can read more about the candidates for National offices here.](#)

### Local Elections

We also have elections this cycle for the leadership of CSW. We, just like the national organization, have our own board (the **Board of Managers**) that has the responsibility to manage our section.

Our Board of Managers has basically 3 categories of officers and five executives. Just like the national organization, we have a President, a Past-President, and a President-Elect, with a Secretary and Treasurer rounding out the executives. We also have 9 Councilors, 9 Alternate Councilors, and 12 Managers. All together, these offices make up our CSW Board of Managers.

Every year, you vote to elect a President-Elect, either a Secretary or a Treasurer, 3 Councilors, 3 Alternate Councilors, and 6 Managers. (This year is our Secretary election.) Each position has different obligations in terms of responsibility and time in office.

[Learn more about who is running for CSW section offices here.](#)

I know it can seem like these are weird and obscure elections, but the people you choose here matter a great deal in how you are represented to the national ACS organization. The Board of Directors has ultimately authority over ACS operations, but they derive that power from you. One of the ways they are told what ACS membership wants is by the ACS Council.

When you think of the ACS Council, think of the House of Representatives. ACS Council is made up of all the Councilors of the local sections and divisions. The At-Large Directors represent the Council to the Board. And the Council represents all of you. It is through Council that your voice gets communicated to the Board.

Is it complicated? Yeah, of course it is. We're a large organization of a lot of people, so there are lots of ways to get involved. There are committees and task forces, projects and initiatives, reports and research projects, and all of them are important, in their own way.

The very least we can do is vote. Your vote will help decide what this organization does and how we present ourselves to the world. Decisions are made by those who show up. Go vote.

## Project SEED Research Symposium A Great Success!

*Contributed by Ajay Mallia, CSW Project SEED Coordinator*

Project SEED is a flagship program of American Chemical Society because of its unique chemistry related research opportunity to economically disadvantaged HS students. This year CSW supported 18 high school students from Washington DC (McKinley Technology HS, Woodrow Wilson HS), Virginia (Thomas Jefferson HS, John Randolph Tucker HS) and Maryland (Highpoint HS, Wheaton HS, Walter Johnson HS). The 2015 Project SEED fellows successfully completed their summer research projects at research institutions such as Georgetown University, George Washington University, University of Maryland (College Park and Baltimore County) or NIST.

The CSW-SEED committee organized a SEED Research symposium on September 12, 2015 at ACS HQ. At the symposium, CSW president Dr. Alan Anderson welcomed the attendees and congratulated all the SEED fellows for their accomplishments. Selected SEED students presented short research talks. Ms. Aisha Abdulkarimu from Wheaton HS, who worked at GWU with Prof. Massiah discussed her exciting research on cloning and purifying a protein which is a suppressor gene. Mr. Harrison Razanajatovo from High Point HS

*Continued on next page*

## Project SEED, Continued

shared his research accomplishment on protein-protein interaction studies using gold nanoparticles conducted with Prof. Marie-Christine Daniel, UMBC. Ms. Sindy Rosales from High Point HS explained her research on hydrogels that are having potential applications in the medical field as drug delivery vehicles. Ms. Rosales did her 2015 and 2014 summer Research at UMD-College Park with Prof. Jeffrey Davis. Ms. Ariane Chandler from McKinley Tech HS, did summer research at Prof. Laronde-Leblanc's lab at UMD, College Park and discussed her summer research on the Investigation of the effects of knocked down and over expression of RioK1 on cancer related processes. Final speaker of this session, Ms. Jeniffer Song from Thomas Jefferson HS summarized her SEED research on the design of Rickettsial outer membrane Protein B peptides for co crystallization with lysine methyltransferases from Rickettsia bacteria. After the research talks all the SEED fellows presented and explained their SEED research as a poster presentation. "A good balance of oral presentations" indicated one of the attendees. "The most successful part of this event was the presentations and seeing the SEED Fellows Projects" noted another participant.



Dr. Anderson also awarded a certificate of accomplishment to each SEED fellow. The best presentation award was held; the CSW-SEED committee would like to congratulate to Mr. John Arcibal (John Randolph Tucker HS) and Ms. Jasmine James (Wheaton HS) who won the first and second prize for their presentation, respectively. The symposium was well attended by SEED mentors, graduate students, students' parents, High school chemistry teachers, and CSW members. The closing remarks and vote of thanks was presented by Dr. Walter Benson (FDA, rtd).

*Photo credit: Ajay Mallia*

## Now Accepting Nominations for the Charles L. Gordon Memorial Award

*Contributed by Kim Morehouse*

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 February 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 **November 15, 2015**. The nomination should be submitted electronically to [csw@acs.org](mailto:csw@acs.org). Please contact the Chair of the Awards Committee, Kim M. Morehouse at [kim.morehouse@fda.hhs.gov](mailto:kim.morehouse@fda.hhs.gov), if you have any questions.

# Now Accepting Nominations for the CSW Schubert Award

*Contributed by Katrice Lippa*

The Chemical Society of Washington (CSW) is pleased to announce the call for nominations for the Leo Schubert Memorial Award to recognize 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 Schubert award consists of a \$500 honorarium and a certificate, which will be presented at the January 2016 CSW dinner meeting.

Nominations for the award must be comprehensive in describing the nominee's accomplishments in areas such as innovation in teaching, writing curricula, outside teaching, papers published, involvement in science fairs, and postgraduate study. The application may also include supporting letters, as well as any supporting documents that concisely illuminate the nominee's accomplishments.

To be eligible for the CSW Schubert award, the nominee must currently teach chemistry at a secondary school in the geographic region of the Chemical Society of Washington, which includes metropolitan Washington, D.C. and the neighboring counties in Maryland and Virginia – Arlington, Fairfax and Loudoun Counties in Virginia, and Montgomery, Prince George's, Charles, Calvert and St. Mary's Counties in Maryland. The region of CSW also includes six counties on the Eastern Shore of Maryland – Caroline, Talbot, Dorchester, Wicomico, Worcester and Somerset.

A CSW Schubert Award nomination form is available directly via The Capital Chemist website (<http://www.capitalchemist.org/the-chemical-society-of-washingtons-leo-schubert-memorial-award-2015-nomination-form/>). Alternatively, a pdf version of the nomination form can be obtained by an e-mail request to [csw@acs.org](mailto:csw@acs.org). Completed pdf nomination forms can be sent directly to [csw@acs.org](mailto:csw@acs.org). All nominations must be submitted by **November 15, 2015**. Please contact Katrice Lippa at [katrice.lippa@nist.gov](mailto:katrice.lippa@nist.gov) if you have any questions.

## Last Chance: Hillebrand Prize Nominations Due 11/2

Nominations are invited for the 2015 Hillebrand Prize, awarded annually for original contributions to the science of chemistry by a member or members of the CSW.

The Hillebrand Prize is the most prestigious honor given each year by CSW and is recognized nationally as a mark of significant accomplishment in chemistry. 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 early chemists. The prize carries an honorarium of \$2000. Many previous Hillebrand Prize recipients have won numerous other national and international awards, including three who have received the Nobel Prize.

### How to nominate:

Nomination packets must include:

- A nomination letter
- The nomination letter must be limited to 1000 words.
- Seconding letters.
- Two seconding letters may be sent, limited to a maximum of 500 words.
- A Curriculum Vitae
- List of publications
- A proposed citation (not more than 25 words)

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## Hillebrand, Continued

The nomination package should be submitted by email, preferably as PDF files(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. 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).

All materials must be received by November 2, 2015. The awardee will be announced before the end of the year, and the Prize will be presented at the CSW dinner meeting in March 2016.

## A Reason for Optimism: Proof That Your Vote Counts

*By Rebecca Flores, Guest Contributor*

More laws that regulate what you eat, drive, and breathe are passed at the state level than the federal level.

Do you know your state legislators? If you are anything like most people, you may know your federal representatives but not your state officials. I decided to research how people vote in state-level elections to see if voters based their choices in these elections on national issues and representatives.

My research, "Divided Federalism and Gubernatorial Elections," looks at the most popular aspects of state politics – the governor and the two major political parties – in order to further study if our federalist system is working. If state elections are simply informed by federal officials and national conditions, then our federalist system would be broken, implying that our state legislators are constantly churning out laws without being held accountable.

**Divided federalism** is when a state elects a president and a governor of different parties. Many scholars argue that divided federalism is a result of midterm-year elections and negative referendum voting. Negative referendum voting results in people voting for a different party for governor than they did for president two years earlier because they now disapprove of the president. Divided federalism is caused by people becoming disheartened by the president and punishing governors of the president's party. As a political optimist, I disagree: I think that people not only take into account the president when voting for their governor, they also consider gubernatorial candidates and their policy positions.

### Framing the Questions

I decided to find out if I was wrong. In order to test whether voters base their gubernatorial election decisions on more than federal officials and national issues, my study looks at presidential-year elections – which scholars have failed to examine. Specifically, I conducted two-part study created using data from the 2008 and 2012 gubernatorial and presidential elections, as well as 2010 and 2012 Cooperative Congressional Election Study (CCES) public opinion data.

The first part is an aggregate-level analysis, which uses the gubernatorial and presidential election results. This analysis looks at the ideology of the state and national parties. The intent is to understand if state parties that diverge ideologically from their national party enjoy more success than their national counterparts within a state. This is important because if states are diverging from the national parties, it shows that people take into account differences between state and federal politics. The implication is that state parties are responding to the ideology of voters, which we want in a functioning democracy.

The second part looks more closely at the governor and how people approve of governors compared to the president. This individual-level analysis sheds light on if people vote for governor based on their perceptions of the president or if people form their own separate opinions of governors.

*Continued on next page*

## A Reason for Optimism, Continued

### Where We're Right... And Where We're Wrong

The aggregate-level tests show that divided federalism is not simply – as most scholars argue – based on voters' perceptions of the president. State parties whose issue positions and rhetoric diverged from the national parties, experienced higher levels of electoral success within their states. Therefore, when state parties diverge and distance themselves from their national counterparts they can actually do better in gubernatorial elections than the national party does in the presidential election.

For example, in the graph below, the upward trend shows that in more conservative states, Democratic governors can perform well if they belong to a state party that diverges in a conservative manner. Ideologically conservative states can still elect Democratic gubernatorial candidates, and indeed they do: in states with a conservative ideology, Democratic state party divergence in a conservative direction resulted in a Democratic gubernatorial candidate outperforming presidential candidate Barack Obama by 4.47 points in 2008.

The conclusion is that politicians and state-level parties do not just mirror their national counterparts but also try to align with their state's ideology. These results demonstrate that state party divergence can result in vote difference as voters reward state parties for diverging. This is a significant finding. It runs counter to the common notion that people vote at the state level based on their perceptions of national issues, federal political leaders, and the two major national parties with little regard for state-level politics.

It is clear here that voters base their approval of governors and the president more specifically on the official's ideology and not just on party label. These aggregate findings were also substantiated at the individual level. I found that Democratic governors that diverged in a conservative manner experienced higher levels of approval by the median conservative respondent compared to the president. There was a strong difference between governors who diverged ideologically from the President and those who didn't. Clearly, voters think of a President differently than they think of a governor, and that is reflected in their voting patterns.

Some might argue that approval difference is not caused by ideological divergence between governors and the president but by substantive differences in relevant issues at the national and state levels (e.g. – national vs. state economies, national defense, etc.). As a test case, I did an analysis controlling for state vs. national economies. I found that ideological divergence was the main driver of approval difference as it had a stronger effect on approval difference than the economy. This is a particularly meaningful finding as most scholars argue that people vote based on the economy above all.

### What Does It All Mean?

It is clear here that voters take into account officials' ideologies and not just party label when voting, which is exactly what is needed to maintain a healthy, functioning democracy with a federalist structure.

Neither referendum voting – in which voters base their state election decisions on their views of the president, nor straight-ticket voting – in which people vote based on party label alone, can explain divided federalism. It also seems that the methodology of leading scholarship may be flawed: we can't fully understand how people vote when we just consider off-year elections and specific national issues.

Importantly, it is very clear here that democratic state elections remain important and intact. Voters are rewarding the responsiveness of state parties that align more closely with their state's ideology. This is particularly important because while America has a two party system, state parties and their officials can enjoy electoral success when they move away from the national parties.

The biggest takeaway from all of this is that every individual's vote matters.

State parties and their officials are very clearly influenced and responsive to voters. With any luck, that knowledge could encourage more citizens to take part in the political process. With so much of the news focusing on intractable gridlock at the federal level, it could be energizing to demonstrate responsiveness of state governments. The data show that it's possible, if we as citizens will engage.

So go vote. It turns out that it actually can matter... if you make it.

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- [www.mboservices.net](http://www.mboservices.net)
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## CSW Calendar of Events

### **November**

11/2: Deadline for Hillebrand Prize Nominations

11/6: Deadline for NCW Illustrated Poem  
Contest

11/14: CSW 50- and 60-Year Member Luncheon

11/15: Voting Ends for CSW Election

11/15: Deadline for Gordon and Schubert Award  
Nominations

11/23: CSW Board of Managers Meeting