



# THE DAYTON SECTION

*Fostering scientific education and research, and promoting public understanding of science since 1930*

**WEB ADDRESS:** <http://DaytonACS.org>

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## BULLETIN

Electronic Election Edition 2012

## Meetings and Events

Oct. 17: Columbus Section Meeting Featuring ACS  
President-Elect, Marinda Wu

Oct. 27: National Chemistry Week at the Centerville Library

Nov. 3-4: ChemFest at the Boonshoft Museum of Discovery

Nov 15: Membership Meeting, née Professional Practices

Nov 17: Dayton Regional Science Festival

## Section News and Other Stuff

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- Su Doku for Chemists & Quotable Quotes — page 6

DATE MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

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## UPCOMING NATIONAL CHEMISTRY WEEK PROGRAMMING

We have a veritable trifecta of events scheduled for National Chemistry Week this year, so come celebrate with us at the Centerville Library, the Boonshoft Museum of Discovery, and as part of the Dayton Regional Science Festival. This year's theme—*Nanotechnology: The Smallest BIG Idea in Science* is particularly relevant; nanotechnology is all around us and has applications to the environment, energy, materials, and health. Whether it's the nanoscience used in environmental cleanup, to develop more efficient lighting, to make stronger, lighter, and durable materials, to make eye shadow that allows you look like an Egyptian goddess, or to make nanomedicine that cures disease, chemistry and nanoscience improves our daily lives.

See <http://www.chemistry.org/ncw> for more information on this year's theme. We are also looking for volunteers to help with any of these events. If interested, please call the ACS Women Chemists Committee's Rising Star Joy Haley at (937) 255-9896 or e-mail [Joy.Haley@wpafb.af.mil](mailto:Joy.Haley@wpafb.af.mil).

### 1<sup>st</sup> Event

Date: Saturday, October 27, 2012

Time: 10:00 am – 2:00 pm

Place: Centerville Library 111 W. Spring Valley Road, Centerville

(See <http://www.wclibrary.info/locations/index.asp> for directions.)

Cost: This Event is Free!

### 2<sup>nd</sup> Event

Date: Saturday, November 3, 2012 and Sunday, November 4, 2012

Time: 12:00 pm – 4:00 pm (both days)

Place: Boonshoft Museum of Discovery 2600 DeWeese Parkway, Dayton (See [www.boonshoftmuseum.org](http://www.boonshoftmuseum.org) for directions)

Cost: Requires Admission to Museum - \$7.50 per child (ages 2 – 12), \$8.50 adults, and \$7.50 seniors (children under 2 are free). Of course members of the museum get in free.

### 3<sup>rd</sup> Event

Date: Saturday, November 17, 2012

Time: 12:00 pm – 4:00 pm

Place: Dayton Regional Science Festival at Chaminade-Julienne High School (<http://www.boonshoftmuseum.org/ignite-innovation>)

Cost: This event is free!



## **UPCOMING MEETING**

**NOVEMBER 15**

### **MEMBERSHIP MEETING**

**Venue: Wellington Grille, 2450 Dayton Xenia Road, Beavercreek, (937) 426-4600**

**Social: 6:00 PM**

**Dinner: 7:00 PM (Reservations required by 13 November. See below.)**

This year, we continue a Dayton Section ACS tradition but with a new, more fitting, albeit more boring, name. At our Membership Meeting, previously called the Professional Practices Meeting, we honor those section members, who, during the past year, have attained 50 or 60 years of ACS membership.

This year, our new 50-year members are: Mr. Joseph R. Coursey, Dr. Robert C. Evers, Mr. Thurman J. Mattingly, Mr. Daniel L. Pollard, and Mr. George Frederick Schmitt, Jr. Our new 60-year members are: Mr. Paul N. Graham and Mr. Russell F. Mitchell.

All section members with more than 50 years of ACS membership are invited as guests of the Dayton Section. While some on the Board thought it might be nice to acknowledge those who have attained 25 years of membership this year, the majority asserted that *another* 25 years is not too long to wait. In any case, all members of the Dayton Section are welcome to attend.

There will be no keynote speaker this year but the 50-year and 60-year members are welcome to speak a few words on their careers and years of service to the ACS. As they drone on and on, we just hope they won't be distracted by the spirited rounds of quarters that are likely to erupt among those of us sitting way in the back.

We will also announce the results of the section elections, so please join us and raise a pint to welcome our newly elected officers, bid farewell to outgoing officers, and see what's new for 2013.

**For Reservations, contact Venkat at: (937) 255-9913, or via email at:**

**narayanan.venkat@udri.udayton.edu AND narayanan.venkat.ctr@wpafb.af.mil**

The Columbus Section of the ACS invites Dayton Section Members to a special meeting:

**Dr. Marinda Li Wu**

2012 President-Elect, American Chemical Society

***Turning Challenges into Opportunities:***

***A Personal and Professional Journey into the 21st Century***

Wednesday October 17, 2012

**Chemical Abstracts Services**

2540 Olentangy River Road

Columbus, OH 43202

800-848-6538

For more information, contact Natalie Chilicki at (614) 961-0452 or natalie.chilicki@yahoo.com.

## PAST MEETING

### EIGHTH ANNUAL SECTION PICNIC OF THE NEW ERA

We had terrific weather and a great turnout at a wonderful new venue — Magee Park in Bellbrook. Perhaps even more members would have attended if the map in the *Bulletin* had been correct!



Good food and good company — well, one out of two ain't bad.



Magee Park was an idyllic retreat, at least until we unleashed our marauding gang of adolescents into it.



Meredith suddenly wants another baby. With no smelling salts, reviving Hilmar proved problematic.



All grill requests were honored, no matter how bizarre.



"Chemists' Silhouette," a composition by Hilmar, won third prize in Southwestern Ohio's Amateur Photography Competition in the category of "Multiple Morose Dimly Lit Subjects."



Steve wonders what happened to Grill #3.

### EMPLOYMENT OPPORTUNITY

The School of Natural Sciences and Mathematics, Indiana University East, located in Richmond, IN (just five miles from the Ohio state line on I-70), has an opening for a part-time Adjunct Instructor to teach a laboratory section for General Chemistry II on Monday evenings at 5:30 PM – 8:30 PM, subject to enrollment and financial constraints. Further openings are possible for this spring as well as future semesters. The Adjunct Instructor must have an MS (or equivalent) or above in an experimental science (chemistry or biochemistry strongly preferred; ABDs will be considered equivalent). Those interested should send a CV to Dr. Yu Kay Law at [lawy@iue.edu](mailto:lawy@iue.edu).

## **2012 SECTION ELECTIONS: CANDIDATE STATEMENTS**

Not only has the Supreme Court's *Citizens United* decision played havoc with section electioneering, this is the inaugural year for the electronic voting for the Dayton Section, thanks to our newly amended bylaws. Those section members with e-mail accounts will soon receive instructions on how to vote electronically, while those still living in the past (specifically, the pre-AOL era) will receive postcards with instructions on how to vote the old-fashioned way. The cut-off for all ballots is November 12, 2012.

This year we have two offices to fill: the Chair-Elect will serve in that capacity in 2013, as Chair in 2014, and as Immediate Past Chair in 2015; the Treasurer will serve a 2-year term starting in 2013. Fortunately, we have one candidate for each office. Their biographies and statements follow.

**Office:** Chair-Elect

**Candidate:** Leanne Petry

**Position Title & Place of Employment:**

Research Chemist, University of Dayton Research Institute  
Adjunct Faculty, University of Dayton, Dept. of Chemistry

**Education:**

Ph.D. in Materials Engineering, University of Dayton, 2009  
B.S. in Chemistry, University of Dayton, 1995

**Professional Society Affiliations:**

Committee Chair, Patterson College Chemistry Awards, Dayton Section of the ACS  
Member, Electrochemical Society  
Member, National Association of Corrosion Engineers  
STEM Fellow for 2012-2013 academic year, Dayton Regional STEM Center

**Statement:**

Leanne Petry has a Ph.D. in Materials Engineering from the University of Dayton with experience in a wide variety of analytical and materials characterization techniques, including microscopy, spectroscopy, and chromatography. In addition to her laboratory and research expertise, Dr. Petry has been teaching undergraduate general chemistry and engineering thermodynamics for three years as an adjunct professor. For the last 12 years, Dr. Petry's work interests have been in surface-solution interface reactions, electrochemical mechanisms of corrosion, and coating system degradation, with particular interest in mitigating corrosion failures. Dr. Petry's vision for the Dayton Section of the ACS is to integrate STEM activities for students at all levels of education (elementary to graduate) through ACS and locally sponsored outreach programs.

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**Office:** Treasurer

**Candidate:** Rachel S. Aga

**Position Title and Place of Employment:**

Assistant Professor, Department of Chemistry, Wright State University

**Education:**

Ph.D. in Chemistry, University of Kansas, 2002  
B.S. in Applied Physics, University of the Philippines, 1993

**Professional Society Affiliations:**

Member, American Chemical Society  
Member, Materials Research Society

**Statement:**

I am delighted to be considered for an opportunity to serve in the Dayton Section of the American Chemical Society. It is my intention to diligently carry out the duties of Treasurer, if entrusted to me, and really look forward to increasing involvement in the Dayton ACS Section.

## **REPORT FROM COUNCIL**

Council at the 244th ACS National Meeting, held in Philadelphia, PA, was preceded by the usual continental-breakfast mosh pit. The situation was exacerbated by Councilors who, after getting their coffee, just stand around blocking others from getting theirs. Strategically bumping into these reprobates to cause spillage seems reasonable, except when one of them turns out to be on the ACS Board of Directors. The only recourse then is to nod accusingly toward an unsuspecting councilor.

There were reports of interest, even to regular members like you:

- ◆ The ACS Climate Science Toolkit is now available at [www.acs.org/climatescience](http://www.acs.org/climatescience). It will allow you to familiarize yourself with climate science so that you can educate your friends, neighbors, and family (well, maybe educating your family is too much to ask, especially your Rush-wanabee siblings) about this important issue.
- ◆ The ACS Chemists with Disabilities Committee presented their award-winning video. View it at <https://vimeo.com/39432635> (or search for “chemists with disabilities” on youtube.com).
- ◆ The Career Fair had 999 ACS Members seeking jobs from 45 Employers offering 148 jobs. Unemployment for chemistry professionals fell from an all-time high of 4.6% a few months ago to 4.2%. Once again, I was not offered an interview by any of the employers present.
- ◆ A Special Discussion Item concerned the major efforts that ACS should pursue to help alleviate water and other global challenges. Again, several nut jobs went to the microphone to voice their opinions. My favorite was, “all we need to do is boil sea water and distill it.” I suppose this Councilor hasn’t used the Climate Science Toolkit yet.
- ◆ The Petition to Amend National Election Procedures was up “for consideration.” The Nominations and Elections Committee wants to nominate two candidates for ACS President whereas currently N&E presents a slate of four candidates from which Council selects two nominees. IMO, it’s a huge power grab by N&E. There’s no way I’ll vote for this when it comes up for action.
- ◆ I was honored for completing my term limit (6 years) on the Committee on Constitution and By-laws. (It seemed much, much longer). I even got a certificate!
- ◆ The candidates for the fall 2012 ACS national election (for 2013 President-Elect) just happen to coincide with the two candidates I voted for at the previous Council Meeting:
  - Dr. Thomas J. Barton, Distinguished Professor, Iowa State University, Ames, IA
  - Dr. Luis A. Echegoyen, Robert A. Welch Professor, University of Texas at El Paso, El Paso, TX
- ◆ The Council passed a resolution to honor the 100th anniversary of the birth of Glenn T. Seaborg, Chemistry Nobel Laureate and past ACS President.

Some of the more mundane events at the Council Meeting are recounted below.

N&E presented to the Council the following slate of candidates for membership on the Committee on Committees beginning in 2013: Spiro D. Alexandratos, G. Bryan Balazs, Christopher J. Bannochie, Arindam Bose, Dawn A. Brooks, Michelle V. Buchanan, Alan B. Cooper, Judith Currano, Warren D. Hull, Jr., David J. Lohse, Christopher J. Masi, Ingrid Montes, Jason E. Ritchie, and Ralph A. Wheeler. By electronic ballot, the Council elected G. Bryan Balazs, Dawn A. Brooks, Michelle V. Buchanan, Alan B. Cooper, and Ingrid Montes for the 2013-2015 term; and Spiro D. Alexandratos and Judith Currano for the remainder of a two-year (2013-2014) term.

N&E presented the following slate of candidates for membership on the Council Policy Committee beginning in 2013: Frank D. Blum, Mary K. Carroll, Joseph A. Heppert, Martha G. Hollomon, Lee H. Latimer, Willem R. Leenstra, Carolyn Ribes, and Ellen B. Stechel. By electronic ballot, the Council elected Frank D. Blum, Mary K. Carroll, Lee H. Latimer, and Carolyn Ribes for the 2013-2015 term.

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The Council received two amendments (petitions) to the ACS Constitution and Bylaws for action: The *Petition on Candidate Comment in C&EN*, which sought to restrict candidates for election to the Board of Directors from publishing comments in C&EN from May through the balloting period, and the *Petition on International Chemical Sciences Chapters Funds*, which sought to allow the Board of Directors to grant funds to international chapters for unspecified purposes. The Council voted not to approve both amendments.

The Council voted to establish a Joint Board-Council Committee on Senior Chemists whose mission is to enrich the educational, technical, and cultural lives of the ACS Membership by ministering to and employing the talents of senior ACS members by: sharing with ACS members of all ages a rich variety of personal experiences and expertise gained over many years of professional service; fostering interest and participation in the science of chemistry through community outreach, especially in grades K-12; acting as science advisors/ambassadors for cultural exchange at home and abroad; providing senior ACS members with challenging, diverse, and enjoyable professional experiences that enable them to contribute to their communities; and recommending policies that address issues of interest to senior chemists. Although the committee is aimed primarily at members over 60 years of age, the definition of a senior chemist is a member age 50 or older. Many councilors, including this one, have a problem with that. The Board of Directors must vote on whether or not to establish the committee.

One of the Society's long-time concerns has been the decline in the number of domestic Regular Members, that is, members paying full dues. The impact of this decline has been offset, as we have reached record membership levels, by increases in the number of international Regular Members, and the 2009 addition of Student Member Undergraduates. While the number of regular domestic members paying less than full dues has decreased from 33,000 to 29,000 in the last five years, this is still significantly more than the number of student members added.

The Committee on Economic and Professional Affairs (CEPA) has unveiled six new four-hour workshops, as the ACS Career Pathways series. CEPA trained more than 40 volunteer facilitators and the workshops are now available for regional meetings and local sections.

The Chair of the Board gave an update on the ACS vs. Leadscope litigation. As of this meeting, there was still no opinion announced by the Ohio Supreme Court on ACS's appeal in this case, despite the fact that oral arguments were presented nearly a year ago. However, on 18 September, the following statement was released by Dr. William F. Carroll, Jr., Chair, ACS Board of Directors:

"The Supreme Court of Ohio today issued its decision in the case of ACS v. Leadscope, Inc., originally filed in 2002. It is a complex decision and ACS needs to carefully review and assess the decision over the next several days.

Based upon initial review, the ACS Board of Directors is gratified that the Court, in a 5-2 vote, found that ACS did not defame the defendants and vacated the lower court's award of damages on that issue, which constituted the majority of the damages award in this case.

As to the defendants' claim of unfair competition, the Court acknowledged ACS' First Amendment right to seek judicial review of its original claims. Although the Court also agreed with ACS' legal arguments that the trial court had improperly instructed the jury on that claim, the Court, in a 4-3 vote, affirmed the lower courts' decisions.

Today's ruling will not impact ACS member dues; ACS products, programs or services; ACS staffing levels; or the ability of ACS to achieve its mission.

ACS also appreciates and acknowledges the strong support it received from the Ohio Attorney General, the Ohio Chamber of Commerce, the Ohio State Bar Association, the Ohio Manufacturers' Association and the Ohio Council of Retail Merchants – all of which submitted briefs supporting ACS to the Supreme Court of Ohio."

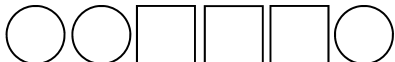
**Your faithful Councilor, Steve Trohalaki**

**Alzheimer's Avoidance Therapy\*** Unscramble the letters to reveal chemical names or concepts. Then, use the circled letters to solve the riddle. Answers next edition!

H L M O T Y



D E I L N O



C I I N R



The aging quantum chemist, having lost his job due to budget cuts, grudgingly accepted the only position offered him after an extensive job search; he was now a rookie patent examiner. His first application was a new nanosensor that exploits the optoelectronic properties of graphene for fabrication of a field-effect transistor. After reviewing the tables and figures of experimental data and assessing the invention's merits, he rejects the application, writing, simply: "This may be all very well in practice but it will never work



**Answers for Last Edition**

**ACRYLIC MOLE MOUSE**

Having just graduated from a very prestigious university, Dustin feels uneasy about both his future and a party his parents have thrown for him. For one thing, they invited all of their friends. What's with that? One old fart saunters up to Dustin and says, "I just want to say one word to you. Just one word. Are you listening? Dustin assures him that he is, then hears the old geezer whisper:

"MACROMOLECULES!"

**AAT-2 – Su Doku for Chemists!**

Using the following nine chemical elements:

Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
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fill in the grid below so that each row, column, and 9-element subcell has only one occurrence of each element.

		Co	Ni		Cr			
Ti	Cu		Mn					
	Sc				Fe			
Sc	Ti							
	Cr	Cu				Ti	Sc	
								Fe
Cu		Cr			Ni			
						Sc		Mn
	Ni		Fe		Mn	Co		

**Quotable Quotes for \$2000, Alex**

"Florida's number three industry, behind tourism and skin cancer, is voter fraud."  
–Dave Barry

"The Florida in my novels is not as seedy as the real Florida. It's hard to stay ahead of the curve. Every time I write a scene that I think is the sickest thing I have ever dreamed up, it is surpassed by something that happens in real life."  
–Carl Hiaasen

"You think you can keep us out of Florida? We're moving in lock, stock and barrel. We're gonna be in the pool. We're gonna be in the clubhouse. We're gonna be all over that shuffleboard court ... and I dare you to keep me out!"  
–Frank Costanza

**Solution for Last Edition**

Fe	V	Co	Ni	Cu	Cr	Mn	Ti	Sc
Ti	Cu	Ni	Mn	Co	Sc	Cr	Fe	V
Cr	Sc	Mn	Ti	V	Fe	Ni	Co	Cu
Sc	Ti	Fe	Cr	Ni	Cu	V	Mn	Co
Mn	Cr	Cu	V	Fe	Co	Ti	Sc	Ni
Ni	Co	V	Sc	Mn	Ti	Cu	Cr	Fe
Cu	Mn	Cr	Co	Sc	Ni	Fe	V	Ti
Co	Fe	Ti	Cu	Cr	V	Sc	Ni	Mn
V	Ni	Sc	Fe	Ti	Mn	Co	Cu	Cr

\*Surveys suggest that mental exercises, including word puzzles, may delay the progression of Alzheimer's Disease.