



# THE DAYTON SECTION

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

**WEB ADDRESS:** <http://DaytonACS.org>  
<https://www.facebook.com/daytonacs>

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Vacant

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Vacant

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## BULLETIN

Election-of-the-Century Edition 2016

## Meetings and Events

Oct. 15, 22, 23: National Chemistry Week Events

November 14: Monday Membership Meeting

## Section News and Other Stuff

- Candidate Profiles & Statements — pp 2–5
- Our First Ever 3D-Printing Social Event! — page 5
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DATE MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

ADDRESS SERVICE REQUESTED

American Chemical Society  
Dayton Section  
5100 Springfield St., Ste. 108  
Dayton, OH 45431

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## **UPCOMING MEETINGS**

**MONDAY, NOVEMBER 14**

### **MEMBERSHIP MEETING**

**Venue:** Wellington Grille, 2450 Dayton Xenia Rd., Beaver Creek, (937) 426-4600

**Social:** 6:00 PM

**Dinner:** 7:00 PM

**Reservations:** Contact Aaron Burke at [aburke1333@aol.com](mailto:aburke1333@aol.com) or 890-2312 by Nov. 11.

This year, we continue a Dayton Section ACS tradition by honoring 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 Dr. John Uchic, Mr. James Pickard, Dr. Jeffrey Huntington, Dr. William Feld, and Dr. Charles Ho. Dr. Roger Belt is our new 60-year member.

All section members with more than 50 years of ACS membership are invited as guests of the Dayton Section. As always, all members of the Dayton Section are welcome to attend.

Thankfully, 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. The audience is usually receptive to even lengthy monologues as long as the kegs behind the bar don't run dry, but if they should, the speaker would be well advised to wrap things up.

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 2017.

## **NATIONAL CHEMISTRY WEEK EVENTS**

### ***Solving Mysteries Through Chemistry***

#### **Exploring the Chemistry of Fibers and Forensics**

**Event 1:** Saturday, October 15<sup>th</sup>, from 1–4 PM, at the Centerville Library.  
This is a free event!

**Event 2:** Saturday, October 22<sup>nd</sup>, from 11 AM–4 PM, and Sunday, October 23<sup>rd</sup>, from noon–4 PM, at the Boonshoft Museum of Discovery.  
Admission prices are: \$11.50 for children (3-17); \$14.50 for adults; \$12.50 for seniors; children under 3 are *free*. Of course, Dayton Society of Natural History members are *free*.

*Several volunteer slots are still open, so contact Melinda Greer at [melinda.greer@uc.edu](mailto:melinda.greer@uc.edu) or 513-936-7165 if you can help out!*

## **SECTION ELECTIONS!**

Unlike any Section Election in recent memory, this year we have a *contested* election, albeit just for the office of Alternate Councilor. The highly anticipated debate scheduled at Wright State was canceled due to financial and security concerns. Candidate profiles and statements appear on pp 3–5.

The Chair-Elect will serve in that capacity in 2017, as Chair in 2018, and as Immediate Past Chair in 2019. The Treasurer will serve a two-year term starting in 2017. Councilor and Alternate Councilor will serve three-year terms starting in 2017.

Section members will soon receive, *via* email, instructions on how to vote electronically. Section members who don't want Russian hackers and WikiLeaks to know how they voted may obtain a paper ballot from the Secretary, Ms. Kerra R. Fletcher, and either mail their completed ballot back to her at the Section's address (American Chemical Society, Dayton Section, 5100 Springfield St., Ste. 108, Dayton, OH 45431) or bring it to the Membership Meeting, Monday, November 14, at the Wellington Grille.

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**Office:** Chair-Elect

**Candidate:** Anastasie K. Weaver

**Position Title & Place of Employment:**

Seeking a permanent position locally.

**Education:**

The Leibniz University of Hannover, Germany

Doctor of Natural Sciences, Synthetic Organic Chemistry, 2010

Diploma in Chemistry, 2006

Associate Degree in Chemistry, 2003

**Professional Society Affiliations, Offices Held, Dates, Services to ACS:**

American Chemical Society, member since 2014

Volunteer at the TechFest, 2015

**Statement:**

The ACS has had and continues to have a significant impact on the future of chemistry around the world. Being relatively new to the Dayton area, I would like to actively get involved with my local section of the ACS by working side by side with our local leaders to contribute to this global impact. I would also like to use this opportunity to learn from experienced professionals about leadership and other skills and build my professional network.

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**Office:** Treasurer

**Candidate:** Prakriti B. Pollack

**Position Title and Place of Employment:**

Adjunct Faculty, University of Dayton

**Education:**

MBA, Project Management: Raj Soin College of Business, Wright State University, 2014

Ph.D., Carbohydrate Chemistry: The Ohio State University, 2003

M.S., Chemistry: Indian Institute of Technology, Kanpur, India, 1997

B.S., Chemistry (Honors); Minor: Physics, Mathematics, Presidency College, Univ. of Calcutta, Kolkata, 1995

**Professional Society Affiliations, Offices Held, Dates, Services to ACS:**

American Chemical Society, 2009–present

Treasurer, Dayton Section, 2015–2016

**Statement:**

I have high regards for the efforts that ACS, Dayton section puts forward to encourage interest in chemistry in high school, undergraduate and graduate school levels in the Miami Valley. The dedication and enthusiasm of the volunteers are commendable. The role of a Treasurer would give me the opportunity to be a part of that committed group of individuals, which would be an honor.

## **SECTION ELECTIONS!**

**Office:** Alternate Councilor

**Candidate:** Dr. Rachel Jakubiak

**Position Title and Place of Employment:**

Plans and Programs Team Lead, AFRL Materials and Manufacturing Directorate, Wright-Patterson Air Force Base

**Education:**

Ph.D., Chemistry, University of Rochester, 2000

M.S., Chemistry, University of Rochester, 1997

B.S., Chemistry, University of Michigan, Ann Arbor, 1995

**Professional Society Affiliations, Offices Held, Dates, Services to ACS:**

ACS member since 1995

Alternate Councilor, Dayton Section of the ACS: 2008–present

Treasurer, Dayton Section of the ACS: 2005–2007

Senior Member of the SPIE (The International Society for Optics and Photonics)

Member, the Optical Society of America

Member, the Association of Old Crows

**Statement:**

It has been my pleasure serving the Section for over 11 years, first as Treasurer and then as Alternate Councilor. As Alternate Councilor my primary responsibility is to represent the Section at national Council Meetings in the Councilor's absence. Additionally, I am a member of the Section's Board of Directors and serve as the liaison to the Affiliate Societies Council of Dayton – the sponsor of TechFest and the Engineers & Scientists (E&S) Awards. The Section's ranking of E&S Awards nominations falls to me. I ask for your vote so that I may continue serving as Alternate Councilor.

**Office:** Alternate Councilor

**Candidate:** Yu Kay Law

**Position Title and Place of Employment:**

Assistant Professor and Coordinator of Physical Sciences, Department of Science, Indiana University East

**Education:**

Ph.D., Biophysics, The Ohio State University, 2010

M.A. and M.Sci., Natural Sciences, University of Cambridge, 2004

**Professional Society Affiliations, Offices Held, Dates, Services to ACS:**

ACS member since 2010:

Webmaster, Dayton Section, ACS, 2014–present

Secretary, Dayton Section, ACS, 2014–2015

Member, Biophysics Society, 2004–2010

Chairman, Cambridge University Physics Society, 2003-2004

**Statement:**

As Webmaster and Secretary of the American Chemical Society, I have been focused on improving and expanding the online presence of the Section. I have found the section to be excellent at outreach in chemistry for the area as well as for helping chemists network throughout the greater Dayton area and beyond. As Alternate Councilor, as well as serving as the alternate for the Councilor, I intend to improve the section's communications with the Affiliated Societies Council, who organize Techfest and coordinate the activities of the different science and engineering societies in the area.

## **SECTION ELECTIONS!**

**Office:** Councilor

**Candidate:** Steve Trohalaki

**Position Title & Place of Employment:**

Adjunct Professor, Chemistry Department, Sinclair Community College (*Go Tartans!*)

**Education:**

B.S., Chemistry, University at Albany, State University of New York, 1979

Ph.D., Physical Chemistry, University at Albany, State University of New York, 1987

Postdoctoral Studies at the University of Cincinnati, 1987–88, and at Syracuse University, 1989–90

**Professional Society Affiliations, Offices Held, Dates, Services to ACS:**

American Chemical Society, Member since 1981

Council Committee on Constitution and Bylaws

Associate, 2006–08; Member and Subcommittee Chair, 2009–2011 and 2014–present

Ethics Committee, Associate, 2012–2013

E. Ann Nalley Regional Award for Volunteer Service to the American Chemical Society, 2010

Central Region of the ACS

Dayton Section representative, 2004–2014

Printing & Publicity Chair, Central Regional Meetings in 1996 and 2010

Symposium Organizer, Central Regional Meetings in 2010, 2011, and 2012

Dayton Section of the ACS

Councilor, 2005–present

Alternate Councilor and Delegate to the Affiliate Societies Council of Dayton, 1999–2004

Patterson-Crane Award Committee, 2005–present

National Chemistry Week Coordinator, 1997–2001

Government Relations Chair, 1995–2000

Public Relations Chair, 1995–2002

Bylaws Committee, Member, 1999–2000; Chair, 2011–2012

Bulletin Editor, 2004–present

Younger Chemist Committee Chair, 1996

Materials Research Society

Special Contributor to the *MRS Bulletin*, 2002–2013

Meeting Reporter, 2004–2010

**Statement:**

I had to forgo my statement so that there would be room for the announcement below. You're welcome, Jenny!

### ***The Dayton Section's First Ever 3D-Printing Social Event!***

We are excited to announce that early next year the section will host a 3D-printing social event for local high school and middle school science teachers. The event will be held at the Dayton Proto BuildBar, and is envisioned as an opportunity for teachers to experiment with 3D printing and to socialize in a relaxed setting. In addition, local section officers will have an opportunity to establish and strengthen collaborative relationships with area science teachers. We expect the event to be on a Saturday morning in early 2017. The section will provide refreshments and the funds necessary for the 3D printing of one object per teacher. Additional information on designing objects to be printed will be forthcoming.

The date of the event and further details on how to register will be announced in the New Year's Edition of the *Bulletin* as well as on our website, [daytonacs.org](http://daytonacs.org), and on our Facebook page, <https://www.facebook.com/daytonacs>.

We invite all interested science teachers to register their interest and availability by contacting the sections Chair-Elect, Jenny Iskrenova-Ekiert at [jnova2001@gmail.com](mailto:jnova2001@gmail.com).

## **REPORT FROM COUNCIL**

It was great being back in Philadelphia for the 252<sup>nd</sup> National Meeting of the ACS. It was the thirteenth time the ACS has met in Philadelphia for a national meeting. The most important thing I discovered was never to underestimate a senior chemist on a scooter – more on that later.

As usual, my duties as Councilor began Sunday with morning and afternoon meetings of the Committee on Constitution & Bylaws. During our break for lunch, I was able to attend the ACS Board Meeting for a special discussion – *ACS National Meetings of the Future* – where audience members contributed their suggestions, which were mostly about incorporating virtual presence of audience and/or speakers.

After C&B, I attended the Town Hall Meeting, where candidates for ACS Director-at-Large answered questions from the audience. Usually, the incumbents, having broader knowledge of ACS and the issues it faces, fare better, but that was not the case this time. Using my patented 4-point system, I had the two newcomers – Kristin Omberg and Joseph Heppert – well ahead of the incumbents – Dorothy Phillips and Kathleen Schulz.

Next on my Sunday agenda was the District-II Caucus, where fellow Councilors are usually briefed by the District-II Director. This time however, we were treated to a miniature Town Hall Meeting featuring the incumbent, George Bodner from Purdue University, and challenger Christina C. Bodurow from Eli Lilly and Company. If re-elected, Prof. Bodner will serve his third and final term. One of his most significant achievements, in my opinion, was the creation of AACT – the American Association of Chemistry Teachers – and seeing that it is adequately funded and supported by two full-time ACS staffers. Bodner's detractors are mostly Councilors who don't like what they see as his long-winded caucuses where, they claim, discussion is stifled. Bodurow came across as confident and competent. Whoever wins will well represent District II.

I also attend as many Presidential Events as my schedule permits, especially the LGBTQ mixer. Several attendees were anxiously anticipating the arrival of ACS President, Allison Campbell. I told them that she was already here, and pointed her out. Moments later, a microphone was thrust at her, and she made brief, but poignant remarks. Paraphrasing, "Thirty-one years ago, when I attended my first ACS Meeting, and many years after that, a gathering like this would have taken place at a bar somewhere on the outskirts of town. There was no announcement – people would know only by word of mouth. By contrast, now it is a Presidential Event. And it is located in the ACS Headquarters Hotel!" Her remarks were met my cheers, clinking of glasses, and consumption of copious amounts of adult beverages.

At Council, I always sit in the first row, so I had an unobstructed view of the inadvertent demolition that delayed the start of Council by about 40 minutes. As usual, the podium was at center, with a dais for the ACS Board. To the left and right were theater-sized projection screens. ACS Board Member Alan Ehrlich, in his approach to the ramp to the podium on his scooter, got tangled in some of the drapes covering the aluminum framing adjacent to one of the screens. As he backed up, he dragged the drape, which dislodged some aluminum framing. A domino effect ensued, seemingly in slow motion, resulting in the stage-right screen crashing to the floor! Many were astonished; no one was injured.

As Council began, I noted that for the first time, the President Elect, President, and Immediate Past President were all women. It is interesting that a male candidate for President-Elect has never defeated a female candidate. As of the morning of Council, 9000 papers had been accepted for presentation, the total registration was 12500, including 7437 regular attendees, 3249 students, 1181 exhibitors, 613 expo-only attendees, and 320 guests. At the Career Fair, 710 job seekers were able to choose from 172 jobs from 37 employers. Once again, no employer wished to interview me. I did get a free, professional headshot, but when the photographer adjusted the lighting so that there was no glare from my glasses, he failed to account for the shine coming off the top of my head.

continued on page 7

The Council conducted a special discussion to gather input on proposed recommendations from the ACS Presidential Task Force on the U.S. Employment of Chemists. The task force has been examining and considering all known factors that can impact employment in the chemical sciences. Councilors were invited to share their thoughts, comments, and suggestions on the proposed suggestions to date, in preparation for the report's expected release later this year. To tell you the truth, I heard nothing new. Once Councilor was not quite correct when she stated matter-of-factly that, "ACS cannot create jobs." ACS did implement a program to equip chemists with the entrepreneurial tools necessary to successfully run a start-up company.

Formal actions of Council, as provided by the nice staffers at ACS, are summarized below.

By electronic ballot, the Council elected Harmon B. Abrahamson, Lissa A. Dulany, Andrea B. Twiss-Brooks, and Sally B. Peters for a 2017-2019 term, Martin D. Rudd for a 2017-2018 term, and Karl S. Booksh and Ella L. Davis for a one-year term, 2017, on the Council Policy Committee.

By electronic ballot, the Council elected Lisa M. Balbes, Thomas H. Lane, Amber S. Hinkle, Alan M. Ehrlich, and Alan A. Hazari for a 2017-2019 term and Neil D. Jespersen for a one-year term, 2017, on the Committee on Nominations and Elections.

By electronic ballot, the Council elected Wayne E. Jones, Jr., D. Richard Cobb, Stephanie J. Watson, Dee Ann Casteel, and Emilio X. Esposito for three year terms, 2017-2019, on the Committee on Committees.

On the recommendation of the Committee on Committees, the Council voted to approve the continuation of the Committee on Analytical Reagents, and the Committee on Chemical Abstracts Service, subject to confirmation by the Board of Directors.

On the recommendation of the Committee on Local Section Activities, the Council approved a petition from the Permian Basin Local Section to annex the Texas counties of Pecos and Brewster, and the petition from the Upper Peninsula Local Section to annex unassigned and adjacent territory, and one Michigan county (Menominee) now currently assigned to the Northwest Wisconsin Local Section.

On the recommendation of the Committee on Membership Affairs, the Council approved a petition to amend the ACS Bylaws to extend the Unemployed Members' Dues Waiver, which will extend waivers for unemployed members' dues from the current two years to three years, subject to confirmation by the Board of Directors.

On the recommendation of the Committee on Economic and Professional Affairs, the Council approved the Chemical Professional's Code of Conduct, subject to confirmation by the Board of Directors.

On the recommendation of the Committee on Constitution and Bylaws, the Council approved the Bylaws for Divisions in Probationary Status and the Charter Bylaws for New Local Sections.

On the recommendation of the Committee on International Activities, the Council approved the establishment of ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq, subject to confirmation by the Board of Directors.

The Council passed resolutions in memory of deceased Councilors; acknowledging President Donna Nelson's service as presiding officer of the Council; and in gratitude for the officers and members of the Philadelphia Local Section, the host Section for the 252nd National Meeting, the divisional program chairs and symposium organizers, and ACS staff.

The Committee on Nominations and Elections solicits Councilors' input of qualified individuals for President-Elect and/or Directors for future consideration. Suggestions may be sent to [nomelect@acs.org](mailto:nomelect@acs.org). N&E has established the Vote 20/20 Task Force, charged with examining all aspects of nominations and elections for ACS national offices, and designing an enhanced process to be in place by the year 2020. The committee welcomes ideas from all members as to how nominations and elections should be handled.

The Society's 2016 Probable 1 Budget calls for a Net from Operations of \$17.3 million. This is \$3.9 million higher than the Approved Budget but only \$723,000 higher than 2015. Total revenues are projected to be \$528.8 million, essentially on budget, and 3.3% higher than the prior year. Total expenses are projected at \$511.5 million, which is 0.6% favorable to budget, and 3.3% higher than 2015.

The Committee considered several program funding requests for 2017, and on its recommendations, the Board subsequently approved funding for the Atlantic Basin Conference on Chemistry, the ChemIDP Program; and the International Student Chapter Program. Additional information can be found at [www.acs.org](http://www.acs.org), at the bottom of the page, click 'About ACS', then 'Financial'. There you will find several years of the Society's audited financial statements and IRS 990 filings.

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than December 14 to be included in the Council agenda for consideration at the spring 2017 meeting in San Francisco. Contact the Committee on Constitution and Bylaws with any questions or requests for information at [bylaws@acs.org](mailto:bylaws@acs.org).

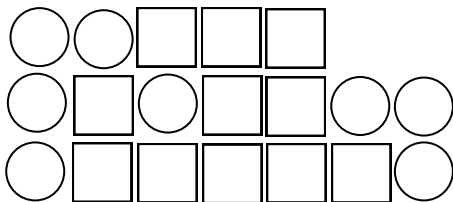
Your Faithful Councilor,  
Steve Trohalaki

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

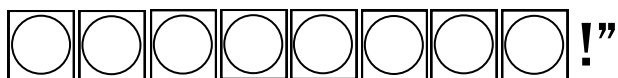
A E R T W

C I I L N O S

Y V N L I I B



On February 15, 2015, Oklahoma Senator Jim Inhofe came to the floor of the US Senate to debunk the greatest hoax perpetuated on the citizens of the United States! Inhofe said to Louisiana Senator Bill Cassidy, who was presiding over the Senate's debate, "In case we have forgotten, because we keep hearing that 2014 has been the warmest year on record, I ask the chair, do you know what this is? It's a



**Answers for Last Edition**

**BUTANE IODINE TYROSINE**

Boltzmann is at the Element Bar tying one on. The barkeep asks, "Why so glum, chum? I mean, they named a constant after you! Boltzmann shrugs, points to his empty glass, and says, "more pouring, less talking." The bartender pours him another shot and says, "You developed a statistical mechanical evaluation of entropy. That's pretty cool." Boltzmann downs his drink and says, "Yeah, well, entropy ain't what IT USED TO BE."

**Quotable Quotes for \$1000, Alex!**

"The aging process has you firmly in its grasp if you never get the urge to throw a snowball."

- Doug Larson

"Sometimes it's hard to start, but once it gets going, once you reach the tipping point - usually between chapter seven and nine - then it's like hanging onto a large snowball as it hurtles downhill."

- Kerry Greenwood

"The older I get, the greater power I seem to have to help the world; I am like a snowball - the further I am rolled the more I gain."

- Susan B. Anthony

"The little white dog, Snowball? You were afraid of Snowball?"

- Jerry Seinfeld

**AAT-2 – Su Doku for Chemists!**

Using the following nine chemical elements:

La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb
----	----	----	----	----	----	----	----	----

fill in the grid below so that each row, column, and 9-element subcell has only one occurrence of each element.

				Pr				
		Sm	Ce					La
			Pm	Eu		Gd	Pr	
La					Pr			
	Sm	Gd						
				Nd	La	Eu	Ce	
					Pm	La		
		La	Nd		Ce			Tb
	Eu	Tb						

**Solution for Last Edition**

Pr	Eu	Nd	La	Tb	Gd	Pm	Sm	Ce
Pm	Sm	Gd	Nd	Ce	Eu	Pr	Tb	La
Tb	Ce	La	Pm	Pr	Sm	Nd	Eu	Gd
La	Nd	Tb	Eu	Pm	Pr	Ce	Gd	Sm
Eu	Pr	Pm	Gd	Sm	Ce	Tb	La	Nd
Sm	Gd	Ce	Tb	Nd	La	Eu	Pr	Pm
Ce	Pm	Eu	Sm	Gd	Tb	La	Nd	Pr
Nd	La	Sm	Pr	Eu	Pm	Gd	Ce	Tb
Gd	Tb	Pr	Ce	La	Nd	Sm	Pm	Eu

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