



THE DAYTON SECTION

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

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BULLETIN

Spring-in-Your-Step Edition 2014

Meetings and Events

June XX: Patterson High School Chemistry Awards

Section News and Other Stuff

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- Like us at <https://www.facebook.com/daytonacs>

DATE MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

ADDRESS SERVICE REQUESTED

American Chemical Society
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UPCOMING MEETING

JUNE ??

PATTERSON HIGH SCHOOL CHEMISTRY AWARDS

Venue: Centerville High School, 500 E Franklin St. (www.centerville.k12.oh.us)

Social: 5:30 PM (Appetizers and soft drinks will be served.)

Awards: 6:00 PM

Keynote Speaker:

History of the Award

Originally established by Charles A. Thomas and Carroll A. Hochwalt, former Dayton chemists and Monsanto researchers, the top chemistry students in the area have been recognized under the auspices of the Dayton Section since 1943. In 1990, the family of the late Austin M. Patterson, also a prominent Dayton chemist, assumed sponsorship. All area high school students are invited to take an examination and the highest scoring applicants are then invited to write essays, which form the basis of the final judging. (These finalists, although only two from one school, are also invited to take the Chemistry Olympiad Exam.) In addition, teachers of the prizewinners receive awards, and the top scoring student from each high school is awarded a plaque. This year, for the first time, the grading was performed separately for those students who have only taken one year of chemistry. Students from this group who were the highest scorers in their High School will also receive a plaque. The top three essayists are awarded first, second, and third prizes of \$1000, \$500, and \$250, respectively.

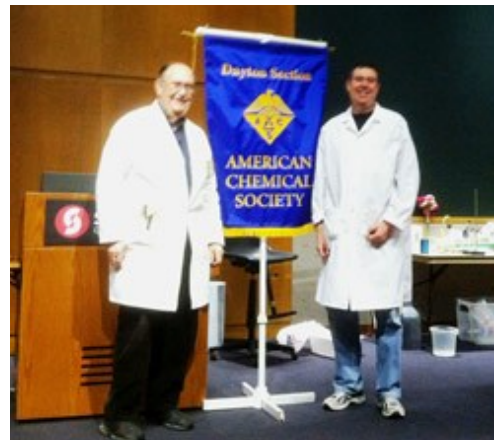
The finalists are:

David Egbert	Alter High School
Bertrand Neyhouse	Beavercreek High School
Joseph Zollar	Bellbrook High School
Kevin Conley	Bellbrook High School
Nicolas Morales	Centerville High School
Maxwell Venetos	Centerville High School
Ronald Knapp	Centerville High School
Nathaniel Choo	Miami Valley School
Phillip Shepard	Northmont High School
Sam Blizzard	Northmont High School
Alex Morgan	Northmont High School
Hao Tran	Northmont High School
Matthew Sells	Northmont High School
Nathan Hess	Oakwood High School

The top scorers with only one year of chemistry are:

Ryan McDaniel	Beavercreek High School
Anirudh Rangaswamy	Centerville High School
Megan Schmitz	Oakwood High School

PAST MEETING — TECHFEST 2014



Master Chemical Demonstrator, John Fortman, and his protégé, Paul Fleitz, wowed the crowd at TechFest and managed to leave the Section's banner unscathed.

PAST MEETING

ANNUAL POSTER SESSION AND THE PATTERSON COLLEGE CHEMISTRY AWARDS

On April 1st, we continued rotating venues for the Annual Poster Session and the Patterson College Chemistry Awards, holding them at Wittenberg University. We just 13 posters — down from 42 last year — but many non-presenting section members and students attended, contributing to a lively gathering. We presented four \$100 awards for outstanding posters.

Outstanding Undergraduate Posters:

One-Step Solvent-Free Synthesis and Grafting of Diazonium Salts onto Glassy Carbon Electrodes
Garrhett G. Via (with K.K. Cline), Department of Chemistry, Wittenberg University

Synthesis of a Haplomyrtin Precursor from a TIPS Protected Intermediate
Bram Spierenburg (with W.S. Barrow and W.A. Feld), Department of Chemistry, Wright State University

Outstanding Graduate Posters:

Growth of Sparingly-Soluble Minerals: The Effect of Varying Ratio and Impurity Concentration
Jacquelyn N. Bracco (with S.R. Higgins and A.G. Stack), Department of Chemistry, Wright State University

Novel Oxyalkylene Linked Polyimides
Kristy Wickman (with W.A. Feld), Department of Chemistry, Wright State University

We also presented as well as five Patterson College Chemistry Awards to outstanding chemistry majors in their junior year. The award consists of a certificate and a check for \$400. This years winners are:

- ◆ Hannah Justice, Cedarville University
- ◆ Coastal Lewis, Central State University
- ◆ Nathaniel Lundy, University of Dayton
- ◆ Garrhett Via, Wittenberg University
- ◆ Corrie Spradlin, Wright State University

The Dayton Section offers its heartfelt congratulations to our Outstanding Poster Winners and our Patterson College Chemistry Award Winners. We are indebted to Wittenberg University for graciously hosting this meeting and to the Wittenberg University Chemistry Club for their volunteer efforts.

REPORT FROM COUNCIL

Two things added to my usual anxiety as I entered the Council Breakfast at the 247th National ACS Meeting, held last March in Dallas: being in a law-and-order, shoot-first state like Texas, and the remarkable herding proficiency of the local temporary employees, who, during cattle-rustling season, don't think twice about zapping wayward grazers with cattle-prods. It also occurred to me that we are fed the exact same pastries at every Council Meeting, no matter where it's held. Does ACS have a huge warehouse of this tasteless fare, freeze-dried for decades and thawed only biannually, or does ACS contract local establishments to produce bland baked goods according to secret recipes guaranteed not to offend Councilors' taste buds ravaged by old-age and long-term exposure to volatile organic chemicals?

My Councilor Duties actually started the previous Sunday. After a riveting day-long meeting of the Council for Ethics (ETHX), I attended the Town Hall Meeting featuring four nominees for 2015 ACS President-Elect: Peter K. Dorhout, William A. Lester, Jr., Christopher K. Ober, and Henry F. Schaefer, III. As usual, the ACS Powers that Be deemed my question unfit to ask. Three of the four nominees had never heard of the American Association of Chemistry Teachers (AACT) — a new ACS program that will be launched later this year — and few of the nominees had any involvement with their local sections. Using my patented 4-point system, I rated Dr. Dorhout head and shoulders above his peers. Three days later, the four nominees addressed Council with prepared remarks. Again, Dr. Dorhout impressed me most — he was animated, energetic, and spoke well. Dr. Schaefer's remarks were mostly about recent conversations he had with young chemists he had met since he got to Dallas, betraying a personal touch that might serve him well as ACS President, so I voted for Dorhout and Schaefer. The choice of Council, however, was for Peter K. Dorhout and William A. Lester, Jr. as candidates for 2015 President-Elect. I suspect that Lester will be the favorite, having a much longer resume than Dorhout.

President Barton started his report to Council by saying, "The tradition, started by Basam Shakashiri (the 2012 President of the American Chemical Society), of donating what the President, if retired, would have paid in meeting registration to Project Seed, is dead!" A hush then fell over Council. Let me point out that the tradition started by Basam Shakashiri did not die because President Barton is not retired; he is retired. It was also apparent from the President's report that the tradition of considerable travel by the ACS President is *not* dead. It also appears that either no one has told President Barton that his written report to Council is supposed to be different than his oral report (either that or he doesn't care). For the second time, his written report was a mere paragraph hinting about what his address will contain.

At the Career Fair, I, along with 769 others, vied for jobs offered by just 30 employers. My new streak of not getting any interviews is now at one. Overall, the Dallas Meeting had 13,608 attendees (as of the morning of Council), 5,140 of whom were students. I'm not sure we'll be going back to Dallas anytime soon; it was cold the first two days, and wet — there was record rainfall the Saturday before the meeting, and it was evident that the storm-sewer system's capacity was overcome.

A special discussion item at Council was, "What can ACS do to increase the quality of science education in grades K-12?" Following a presentation, 39 Councilors took to the microphones. I found the following comments noteworthy:

- ◆ ACS members should run for School Board to displace those who are just using it as a launching pad for political careers.
- ◆ Schools should spend at least as much on a laboratory classroom as they do on one football player.
- ◆ Teachers should be treated as professionals, not as Peace Corps volunteers. (Amen, sister!)
- ◆ Engage with web-game designers to infuse science into games.

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The following is a summary of the more mundane doings at Council, kindly provided by a faceless, underpaid staffer at ACS:

Candidates for Directors-at-Large

The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for 2015-2017: Dawn A. Brooks, William F. Carroll, Jr., Barbara A. Sawrey, and Ellen B. Stechel. The election of two Directors-at-Large from among those candidates and any selected via petition will be conducted in the fall. Ballots will be mailed to the Council on or before October 10, 2014.

Committee Continuance

As part of a regular performance review, the Council VOTED unanimously to continue the Committees on Chemical Safety, on Chemistry and Public Affairs, and on Minority Affairs. Continuation of these three committees requires Board concurrence.

2015 Member Dues

The Council voted to set the member dues for 2015 at the fully escalated rate of \$158. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

Divisional Allotment Formula

After voting to postpone its implementation, the Council voted to approve a revised formula for allocating dues funds to divisions. This formula, which was presented by the Committee on Divisional Activities, will be effective with allocations for 2015 division performance.

Changes in Local Section Territory

On recommendation of the Committee on Local Section Activities, the Council voted to approve the petition from the North Jersey Section to include the area of the former Monmouth County Section in its territory, effective immediately.

New International Chemical Sciences Chapter

Council voted to approve petitions to charter the South Korea International Chemical Sciences Chapter and the Malaysia International Chemical Sciences Chapter.

COMMITTEE ORAL REPORTS (Highlights)

Budget and Finance (B&F)

In 2013, ACS generated a Net from Operations of \$15.1 million, which was \$2.0 million favorable to the budget. This represents the Society's tenth consecutive year of positive operating results. Total revenue was \$490.5 million, which was \$8.8 million (or 1.8%) lower than budget, and essentially flat when compared with 2012. The result was largely attributable to cost containment measures throughout the ACS. Unrestricted Net Assets rebounded in 2013, rising to \$207 million, and more than doubling from the 2012 level.

Education (SOCED)

SOCED approved a pilot program to form ACS International Student Chapters.

Membership Affairs (MAC)

For 2014, MAC authorized an individual member test for India to allow for a \$52 full Member dues rate. At this meeting, MAC extended the test to include new and renewing members in India for three years.

Economic and Professional Affairs (CEPA)

Findings from the ACS 2013 New Graduate Survey have been compiled and reveal troubling news: overall unemployment among new graduates rose from 12.6% in 2012 to 14.9% in 2013. This is primarily due to the high unemployment among recent Bachelors degree chemists. New graduates must be at the top of our priority list for employment assistance in 2014.

Meetings and Expositions (M&E)

As of this morning (March 19, 2014), the ACS spring national meeting had attracted 13,680 registrants, including 6,853 regular attendees and 5,140 students. The meeting had 10,050 papers presented.

The new ACS Mobile Application had over 6,000 downloads by meeting attendees.

M&E voted to eliminate the author index in the hard program meeting program book beginning with the spring 2015 meeting. The searchable author index is now available via the mobile application and other electronic means.

Divisional Activities (DAC)

Operating as a DAC subcommittee, the Multidisciplinary Planning Group is proposing the following 2017 national meeting themes to the divisions for their consideration:

Spring, San Francisco: *Advanced Materials, Technologies, Systems and Processes*

Fall, Washington, DC: *Chemistry's Impact on the Global Economy*

Local Section Activities (LSAC)

LSAC will initiate the process to dissolve the Ocean County (New Jersey) Section as a result of the group's failure to meet the criteria to remain an active section.

Constitution and Bylaws (C&B)

In Fall 2013, C&B announced a new optional process for expedited bylaw reviews, offering limited customization but faster than the current three month turnaround. C&B has now created a new, easier way for local sections and divisions to prepare bylaw revisions for C&B review. They are not as restrictive as those permitted through the expedited process. After a unit indicates its willingness to update its bylaws, C&B would then offer to create a first draft of proposed bylaws changes for consideration by the unit. Alternatively, the unit may still propose its own draft changes for C&B review.

Your faithful Councilor, Steve Trohalaki

