Meetings and Events
May 22: Patterson High School Chemistry Awards
June 22: Dayton Dragons Baseball Game!

Section News and Other Stuff
- Report from Council — page 2
- Past Meetings — pages 4-5
- Alzheimer’s Avoidance Therapy — page 6
- AAT-2: Su Doku for Chemists — page 6
- Quotable Quotes — page 6
During my flight to Orlando crowded with sniveling brats wearing mouse ears, it occurred to me that Disney and ACS have something in common: their mascots – Mickey Mouse and Millie Mole – are both rodents. I'll leave to you, dear reader, any symbolism you care to infer.

Members of ACS Governance had one thing overwhelming their thoughts as they arrived in Orlando: The Mother of All Petitions, also known as The Petition to Streamline the ACS Governing Documents. Ironically, my Councilor duties started hours later than usual when the meeting of the Committee on the Constitution and Bylaws (C&B) met shortly before lunch on Saturday (C&B’s decades-long tradition of holding a Saturday-night dinner was unceremoniously scrapped by the Powers that Be).

Next on my agenda was a rather uninspiring Town Hall Meeting where Magid Abou-Gharbia, H.N. Cheng, Carol A. Duane, and Christopher J. Welch vied for selection as candidates for President-Elect, 2020. Using my patented four-point system, Carol Duane, and Christopher Welch came out on top.

A bombshell capped Saturday evening. At the District-II Councilor Caucus, a member of the Local Sections Activities Committee (LSAC) brazenly stated that they would oppose The Petition to Streamline the ACS Governing Documents because it moves from the Constitution to the Standing Rules a provision for the 80-20 Councilor split (80% of Councilors represent Local Sections and 20% represent Divisions). Standing Rules can be approved with a mere majority of Council, whereas a change in the Constitution requires a two-thirds approval of membership. LSAC evidently did not want to make it any easier for Local Section Councilors to lose their grip on power.

The Petitioners had previously stated that they would accept no amendments from the floor of Council, fearing that their beloved petition, which they had been nurturing for the past four years, and that started to feel like the flesh of their flesh, would be bled to death by petitions ad nauseum.

In the end, however, the Petitioners blinked. Before Council, in a proverbial smoke-filled room, the petitioners agreed to an amendment in order to save their beloved petition. Instead of moving to the Standing Rules the language providing for the 80-20 Councilor split, it would be moved to the Bylaws, whose amendment requires a two-thirds approval of Council. This amendment to the Petition was announced matter-of-factly at Council, but Councilors demanded a recorded vote be taken for its approval (a recorded vote means that all Councilors’ votes will be published in C&EN.) Support was voiced by many Councilors during the comment period, but the faction of Councilors who want to Make ACS Great Again were uncharacteristically silent. The amended Petition to Streamline the ACS Governing Documents was then approved by an amazing 96% of Council! However, because the amendment changes the ACS Constitution, it still needs to be approved by a two-thirds vote of membership, i.e., by you!

The rest of Council was a tad of a letdown. We heard from the four nominees for 2020 President-Elect, and Council selected H.N. Cheng and Carol A. Duane. The Council voted on the recommendation of the Committee on Budget and Finance (B&F) to set the member dues for 2020 at the 2019 rate of $175, saving each ACS Member $5! I celebrated this saving by ordering five-sevenths of a beer at my local pub.

ACS President Bonnie Charpentier led a special discussion on ACS Relevance to Current and Future Members: Challenges and Opportunities. I had asked for your input in a question in our e-survey, but it did not go out in time for me to bring results to Council. Councilors provided many recommendations and suggestions including increased support for local sections and industry members, helping student members transition into their professional careers, and implementing a monthly payment tool for ACS dues. Personally, I believe that ACS is losing young members after they present a poster at a national meeting, and no one engages them. Organizers should recruit members to talk to these young chemists about their work, careers, and to make them feel welcome in the society.

Your faithful Councilor,
Steve Trohalaki
**UPCOMING MEETING**

**MAY 22**

**Patterson High School Chemistry Awards**

Venue: Room 150, Science Center, University of Dayton  
Address: 300 College Park, Dayton, OH 45469  
Parking: Visitor Lot, University Circle/L Street or Lot C, Parking lot B (requires a Visitor Parking Pass) https://udayton.edu/map/  
Agenda:  
5:30 - 6:15 PM – Social (with complimentary food and drink)  
6:30 - 6:30 PM – Keynote: Dr. Melinda Greer (Dayton Section Volunteer of the Year)  
6:30 - 7:00 PM – Awards

Originally established by Charles A. Thomas and Carroll A. Hochwart, 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. The ten highest scoring applicants and the highest scorers at each High School are then invited to write essays, which form the basis of the final judging. The top ten finalists, although only two from each school, are also invited to take the Chemistry Olympiad Exam (*). In addition, teachers of the prizewinners receive $50 awards, and the top scoring student from each high school is awarded a plaque. Grading was performed separately for those students who have only taken one year of chemistry (1). 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, $750, and $500, respectively.

This year's Patterson Scholars, their High Schools (and their teachers) are:

- Kevin Yin  
  Centerville High School  
  (Julie Summers)

- Shriya Rangaswamy*  
  Centerville High School  
  (Julie Summers)

- Nobel Zhou*  
  Sidney High School  
  (Ebenezer Blay)

- Tiffany Huang*  
  Beavercreek High School  
  (Tejinder Rattan)

- Kyle Lethanderr*  
  Oakwood High School  
  (Tony Rainsburger)

- Anna Yang  
  Beavercreek High School  
  (Tejinder Rattan)

- David Cai*  
  Oakwood High School  
  (Tony Rainsburger)

- Mitchell Bonnano*  
  Alter High School  
  (Heidi Cuticchia)

- Sam Henne*  
  Northmont High School  
  (Tejinder Rattan)

- Grant Spangler*(1)  
  Anna High School  
  (Vicki Quinter)

- William Zhang*  
  Centerville High School  
  (Julie Summers)

- Joseph Ritze*  
  Lehman Catholic High School  
  (Ginny Scherer)

- Jerrick Liu  
  Centerville High School  
  (Julie Summers)

- Luke Lunday  
  Beavercreek High School  
  (Kristine McDaniel)

- Nikhil Vijai  
  Centerville High School  
  (Julie Summers)

**JUNE 22**

**Dayton Dragons Baseball Game**

In lieu of our traditional Dayton Section Picnic, we'll be trying a couple of different social events this summer. First up is a Dayton Dragons Baseball game. We'll provide tickets for you (and up to three family members/significant others) at no cost for the first 40 to register. Use the following link to register: eventbrite.com/e/61109987618. For additional tickets, contact Erick Vasquez at evasquez1@udayton.edu. Please register no later than May 22nd. The Dragons will be playing the Lansing Lugnuts at Fifth-Third Field, 220 N Patterson Blvd, Dayton.

Our second summertime social event (at Young's Jersey Dairy) is in the planning stages. Watch this space!
Annual Poster Session/Joint Meeting with SAMPE, and Patterson College Chemistry Awards

On April 11, the Dayton Section held its first-ever joint Meeting with SAMPE Midwest by combining our Annual Poster Session and College Awards with SAMPE Midwest’s student research symposium. Section members were able to view 21 posters presented by graduate students and 11 posters presented by undergrads. Presenters of outstanding posters from Miami University (MU), University of Dayton (UD), and Wright State University (WSU) were awarded with $100 prizes; their names appear and poster titles appear below.

**Graduate Students:**

- Kevin Burridge (MU): **Characterizing the structure and dynamics of styrene-maleic acid copolymer lipid nanoparticles (SMALPS) as a membrane mimetic**
- Progyateg Chakma (MU): **Utilizing RAFT Polymerization and Dynamic thiol-Michael Chemistry for Tunable Thermoresponsive Dynamic Polymer Networks**
- Katherine Burzynski (UD): **Enabling high-power flexible devices through tailored nanocomposite interface materials**
- William Robinson (WSU): **Development of a redox active metal-tetrathiafulvalene catalyst**

**Undergraduate Students:**

- Sophia Angelopoulos (WSU): **Dual-stimuli responsive hyperbranched polyamines for gene delivery applications**
- Andrea Poole (WSU): **Bio-templated energetic materials**

The Dayton Section owes a debt of thanks to the 15 poster judges: Dr. Justin Biffinger, Dr. Doug Daniels, Dr. James Heckler, Dr. Kevin Hinkle, Dr. Hilmar Koerner, Dr. Weijie Lu, Dr. Jesse Lutz, Dr. Jack Ly, Dr. Kara Martin, Dr. Mark Masthay, Dr. Monica Narvaez-Rivas, Mr. Sidney Osborn, Dr. Lisa Rueschhoff, Dr. Erick Vasquez, Dr. Vikas Varshney, and Dr. David Wang. The Section is striving for a 1:1 judge to presenter ratio in the future.
The Patterson College Chemistry Awards are presented annually to outstanding junior chemistry majors at each university within the Section’s boundaries. Central State University did not nominate a student this year. At the end of the poster session, each of the following students were presented a certificate and a check for $400:

Kelsy Boyes  
Cedarville University

Morgan Grunden  
Wright State University

Katie Robinson  
Wittenberg University

Alexis Smith  
University of Dayton

Chemists Celebrate Earth Week (CCEW)

On April 27th, the Dayton Section collaborated with the Boonshoft Museum of Discovery to celebrate Earth Week. The event was organized by our Chair-Elect, Prakriti Pollack and Robin Ramsey (the Boonshoft’s Supervisor of School and Teacher Services). This year’s theme was Paper Chemistry. In accordance with the theme, the event had various hands on demonstration/experiments such as how to make recycled paper, testing the pH of various liquids such as milk, soda, juice, vinegar, tap water, spin art on paper plates, and viewing through a microscope samples of a wasp nests (nature’s paper products!).

All visitors to the Boonshoft were welcome to attend this event, which drew a lot of young, curious scientists and their grateful parents. There were various giveaways both from the ACS and the Museum. The Dayton Section thanks the volunteers who made this event possible: Wayne Cook, Benthany Davies, Mckenzie English (Boonshoft Museum) and his team of coworkers/volunteers, Jamie Via, and Anastasie Weaver.
Alzheimer's Avoidance Therapy*  Computer Science Edition! Unscramble the letters to reveal a chemical name. Then, use the circled letters to solve the riddle. Answers next issue!

**Answers for Last Edition**

PROPANE  RADIUM  PHENOL

At the Element Bar, Three-Quarters is immediately attracted to One-Half because, well, everyone else is an element. They hit it off, go back to her place, and do some, uh, addition. Three-Quarters promises One-Half that he’ll call her, but, yada, yada, a year passes before he sees her again. “What up?” Three-Quarters asks. “Well,” I have a little surprise for you! His name is Five-Quarters!” One-Half says as she displays a baby photo on her iPhone. “We should get married,” Three-Quarters says. “And change his name to One and a Quarter. No son of mine is going to grow up IMPROPER!

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**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.

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

“A lot of rock bands are truly legends in their own minds.”

– David Lee Roth

“If heavy metals bands ruled the earth, we’d be a lot better off.”

– Bruce Dickinson

“I never studied anything, really. I didn’t study the drums. I joined bands and made all the mistakes onstage.”

– Ringo Star

“He’s a million rubber bands in his resilience.”

– Alan K. Simpson

“Ah, look. I’m sorry to bother you, but I’m a US postal worker and my mail truck was just ambushed by a band of backwoods mail-hating survivalists.”

– Newman

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**Solution for Last Edition**

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