## Daytime Edition 2021

### Meetings and Events

None, Nada, Zilch!

### Section News and Other Stuff

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- Quotable Quotes – page 6
- AAT-2: Sudoku for Chemists! — page 6
- New Membership Categories — see enclosed brochure

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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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American Chemical Society
Report from Council

Even though the Fall 2021 ACS Meeting in Atlanta was held as a hybrid meeting, Council was held virtually. My Councilor duties were the same as they were before the pandemic but spread out and, as was the case since the Spring 2019 Meeting. My final (due to term-limiting) Constitution & Bylaws Committee Meeting was held on Sunday, August 15th. I attended District-II Councilor Caucus a week later, on August 22nd. Council was held the following Wednesday, August 25th. The semiannual Town Hall Meeting didn’t take place until September 21st!

Council performed one of its most important duties – election of Councilors to the Council Policy Committee (CPC), to the Committee on Committees (ConC), and to the Nominations and Elections Committee (N&E). After introductions of all candidates, Council voted to elect Donna Friedman, Matthew Grandbois, Fran Kravitz, and Louise Lawter to CPC; Mary Engelman, Malika Jeffries-El, Brian Mathes, Susan Olesik, and Susan Schelble to ConC; and Allison Aldridge, Holly Davis, Peter Dorhout, Silvia Ronco, and Martin Rudd to N&E. All terms of office are for three-years, 2022-2024.

Council approved the Petition to Amend the Duties of the Committee on Minority Affairs, on the recommendation of ConC and with the concurrence of the CPC. The Council also approved the continuation of the Committee on Environmental Improvement. On the recommendation of the Committee on Economic and Professional Affairs, and with the concurrence of ConC, Council approved the 10th version of the Professional Employment Guidelines.

President Cheng led a special discussion on ideas to increase involvement and membership from business and industry. For the last 5 years there has been a steady decrease in industry members. This can be attributed to a variety of factors, but there have been ongoing efforts to decrease the cost-related attrition while increasing member value.

To address value, ACS has a variety of offerings available to members to advance, discover, connect, and share. To address cost, actions were taken by the Council this past spring in the schedule of membership for 2022 that will provide industry members with flexibility as to membership options. Councilor input was then requested on the following two questions:

1. How can we improve the value that ACS provides to its industrial and business members?
2. How can we encourage academic inventors and entrepreneurs and support start-ups?

The Council passed several resolutions:

- In memory of two deceased Past Presidents, Helen M. Free and Daryle H. Busch
- In memory of deceased Councilors: Dr. Esther A.H. Hopkins, Ms. Jane V. Thomas, Dr. Joseph M. Antonucci, and Dr. Mark D. Frishberg
- Expressing thanks to the officers and members of the Georgia Local Section
- Acknowledging H.N. Cheng’s service as ACS President and presiding officer of Council

Your faithful Councilor, Steve Trohalaki

Congratulations to our New 50-Year and 60-Year Members

We were looking forward to congratulating those Section Members who in 2021 have achieved 50 and 60 years of service to the ACS, in addition to those members who did so in 2020. Unfortunately, our Membership Meeting has again been canceled due to the COVID-19 pandemic.

For now, our congratulations are virtual, but still heartfelt! Certificates will be mailed to our new 50-year and 60-year members. We look forward to next year’s Membership Meeting when we can congratulate in person our 50- and 60-year members from 2020 and 2021.

Our new 50-year member is Dr. Aaron Ronald Burke. Our new 60-year members are Dr. John J Forman, Dr. Robert A Darrow, Mr. Paul H. Lamberger, and Mr. John M. Zurbuchen.
**Section Elections**

Yes, it’s that time of year when we elect Section Officers! In fact, we’ll be electing just *one* Officer because we have failed to identify a section member willing to serve as Secretary. If you are interested in learning more about the Secretary position, contact our Chair, Dr. Davide Simone at dlsimone43@gmail.com.

We are grateful to have an outstanding candidate for Chair-Elect! See below for his biography and statement. Section members will be given instructions via email on how to access the Section’s electronic ballot.

*Office*: Chair-Elect  
*Candidate*: Jack Ly  
*Position Title & Place of Employment*: Research Scientist and Student Team Lead at UES, Inc.  

*Education*:  
- Ph.D., Polymer Science and Engineering, UMass Amherst (2018)  
- M.S., Polymer Science and Engineering, UMass Amherst (2014)  
- B.S., Polymer Science, University of Southern Mississippi (2013)

*Professional Society Affiliations, Offices Held, Dates, Services to ACS*:  
- Member, American Chemical Society (2010-present)  
- Alternate Councilor, Dayton Section of the ACS (2020-present)  
- Webmaster, Dayton Section of the ACS (2020-present)

*Other Memberships and Activities*:  
- None.

*Statement*: As Chair-Elect, my goal is to bring about more activity and involvement among local members coming out of the relatively inactive COVID slump. The local section is lucky to be well-funded with a vast number of members, but there is a need to revitalize our activities for the benefit of and engagement with/among our esteemed members. I envision more connection between the local section with student led ACS-affiliate college groups in the local area to increase engagement, networking, and development of our younger (undergraduate and graduate) counterparts. Additionally, I want to have increased involvement with new and young professionals in our local area working in academia, industry, and government alike. This can be done by way of new social activities including fun and competitive events with prize incentives beyond our traditional poster session. I invite any interested individual reading this statement to join the local section in the planning involvement of these efforts.

**Patterson-Crane Award**

The winner of the 2021 Patterson-Crane Award is Dr. Val Gillet, Professor of Chemoinformatics, Information School, University of Sheffield!

The Patterson Crane Award was originally established in 1949 as the Austin M. Patterson Award to acknowledge meritorious contributions to chemical literature and documentation of chemistry. Dr. Patterson was the first recipient for his work as editor of Chemical Abstracts from 1909-1914. The biennial award was expanded in 1975 to honor another Chemical Abstracts editor (1915-1958) and 1953 award recipient, E. J. Crane.

The award, which includes a $3,000 honorarium and expenses to present a talk at a Central Regional Meeting of the ACS, is now funded by a bequest of the Patterson family, by the Helen G. Crane Fund of the Columbus Foundation, and by the Patterson Crane Award Fund of the Dayton and Columbus Sections.

The Section owes a debt of thanks to the members of the Patterson-Crane Award Committee: Steve Trohalaki (Chair), Hilmar Koerner, and Davide Simone.
National Chemistry Week

We celebrated at two NCW events in 2021. The first event took place at the Centerville Library on October 16, and the second event was held on October 23 and 24 at the Boonshoft Museum of Discovery. Both events highlighted this year’s theme, *Fast or Slow: Chemistry Makes it Go!*

Our young scientists compared marble movement in liquids of different viscosity, examined antacid tablet reactivity in hot versus cold water, observed reaction rates of vinegar and baking soda at different concentrations, and compared water droplet movement on spoons with and without a coating of water-resistant sand.

Throughout both NCW events, we facilitated experiments with around 230 local children and their parents. Thanks to our NCW Coordinator, Melinda Greer, and to all who volunteered!

Bill Crawford shows how water-resistant sand alters the movement of water droplets. The young scientists wonder where they can obtain a large quantity of water-resistant sand for the next time they build a castle at the beach.

In a kind of shell game, young scientists select the cup that contains an antacid tablet in hot water or the one that contains an antacid in cold water.

Odds were given for which balloon, collecting a product from the reaction of vinegar and baking soda, would pop first.

A volunteer shows how the movement of marbles is slower in a fluid with a higher viscosity, but has no answer to the young scientist’s question, “Doesn’t the second law of thermodynamics require all fluids to have positive viscosity?”
Joint Meeting with the Cincinnati Section

On September 19th, Dayton and Cincinnati Section Members met jointly for a picnic at Germania Park in Mason. As the Dayton Section banner was unfurled, an audible gasp emanated from Cincinnati members – a clear sign of banner envy. Anxieties were quickly quelled by half kegs of Warsteiner Pilsner and Dunkel.

In other activities, college students had resumes reviewed, received interview tips, and learned what working chemists do at P&G, UES, Advanced Testing Labs, EPA, FDA Forensic Chemistry Lab, NIOSH, and ThermoFisher. The Society for Applied Spectroscopy, Coblentz Society, and SciX conference (formerly FACSS) were also represented.

Rockin’ Ron from WGGRR provided music and challenged socially awkward attendees to participate in line dances. Dr. Mike Weaver led us in an Octoberfest beer tasting of local brews. Gloria Story and Susan Hershberger demonstrated the effect of temperature and UV light on reaction rates.
Alzheimer’s Avoidance Therapy* Unscramble the letters to reveal a chemical name. Then use the circled letters to solve the riddle. Answers next edition!

E H L N O P ☐☐☐☐☐☐☐
A E R T W ☐☐☐☐☐☐☐
D I I M N U ☐☐☐☐☐☐☐

The former Assistant Professor and new bartender at the RNA Bar quickly becomes enamored with the comely young woman sitting by herself. Even though his previous sexual harassments resulted in denial of his tenure, the sleazeball is unrepentant and tells her, “I wish I was adenine.” Irritated that this oaf has distracted her from the true object of desire (her iPhone), she resists the urge to spit in his eye and answers, “Yeah, why’s that?” The bartender replies, “Because then I could get ☐☐☐!”

AAT-2: Sudoku for Chemists! Use 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 sub-cell has only one occurrence of each element.

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

Answers for Last Edition

XYLENES BROMIDE QUARTZ

Leela bakes two batches of brownies – Batch A with regular D-glucose and Batch B with L-glucose – and leaves both batches in the break room. Everyone who ate a Batch-B brownie later experienced intestinal distress. Well, everyone except for Bender, who ate several brownies from both batches and had no ill effects at all! Evidently, Bender is AMBIDEXTROSE.

Quotable Quotes for $1000, Alex!

“You would be amazed by what you can give up, lose, or break, and yet still be a person who gets happy over brownies.”

– Augusten Burroughs

“Anyone who tries to make brownies without butter should be arrested.”

– Ina Garten

“I smoke a cigar or two a day. I did have a brownie once. It made me sleepy.”

– Barney Frank

“Governor Chris Christie says if he’s president, he will crack down on the sale of marijuana. However, that was before he was told it also comes in a brownie.”

– Conan O’Brien

AAT-2 Solution for Last Edition

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