



THE DAYTON SECTION

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

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BULLETIN

Mask-Optional Spring Edition 2022

Meetings and Events

April 24: Dayton Dragons Baseball Game

Date TBA: Patterson High School Chemistry Awards

Section News and Other Stuff

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DATED MATERIAL - MEETING ANNOUNCEMENT - DO NOT DELAY

ADDRESS SERVICE REQUESTED

American Chemical Society
Dayton Section
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Section Programming

Dayton Dragons Baseball Game – Sunday, April 24th

The Dayton Section and the American Ceramics Society (the *other* ACS) will hold a joint social event for the first time! We have reserved **Party Deck C** at Day Air Ballpark in downtown Dayton for a ballgame against West Michigan Whitecaps, the Dragons' East Division rivals. Game time is 1:05 PM.

Section members, their families, and all chemistry students are invited free of charge, but tickets are limited. Please make your reservations by April 6th on the following Google form:

<https://forms.gle/C44eqVStMTxhKCxW8>



Chemistry Olympiad Exam and Patterson High School Chemistry Award

The local USNCO Exam was administered March 9-11, with chemistry students from high schools throughout the Miami Valley participating. The highest scoring students, although only two from each high school, are invited to take the national exam, with written and laboratory components.

The highest scoring students from the local exam will also be invited to write essays, which form the basis of the Patterson High School Chemistry Award, with prizes of \$1000, \$750, and \$500 for 1st, 2nd, and 3rd place, respectively. The date and venue for the awards meeting will be announced on our website, on Facebook, and via email.

Poster Session and Patterson College Chemistry Awards

The Section's Programming Committee is optimistic that our Annual Poster Session and will take place this year, after two years of cancellations due to the pandemic.

The traditional date of the Poster Session has past (thanks, Omicron!), so it is now being planned for a date in late August or early September. The Poster Session is open to all researchers within the boundaries of the Dayton Section, not just students. Please contact the Chair of the Dayton Section if you (and your students if you have them) are interested in participating and let him know your preference of late August or early September.

Patterson-Crane Award

The biennial Patterson-Crane award is given jointly by the Columbus and Dayton Sections in recognition of excellence in chemistry information, broadly defined. Recently the two sections changed its venue to the Central Regional Meeting, but this year the award will be presented at a joint meeting in Columbus because the current winner – Prof. Val Gillet – has a prior commitment that conflicts with the CeRM.

Call for Volunteers

The Section is in need of an Alternate Councilor and a Webmaster. Contact the Section Chair-Elect, Jack Ly, if you are interested in either position at jthanhly09@gmail.com.

Officer Appointments in Lieu of Section Elections

For the first time in the history of the Dayton Section, annual elections were not held to fill vacant offices. Fortunately, the Section's Bylaws have a remedy for such a circumstance: offices are filled by appointments by majority vote of the Executive Committee, although the terms of office are for only one year. Jack Ly was appointed Chair-Elect, and Kraig Strayer was appointed Secretary.

Newly appointed, returning, and outgoing officers are pictured below. The Section welcomes our new officers, thanks our returning officers, and bids a fond farewell to our outgoing officers.

Newly Appointed Officers



Chair-Elect
Jack Ly



Secretary
Kraig Strayer

Outgoing Officers



Secretary
Kevin Hinkle



Immediate Past Chair
Hilmar Koerner

Returning Officers



Chair
John T. Kelly



Immediate Past Chair
Davide Simone



Treasurer
Justin Biffinger



Councilor
Steve Trohalaki



Alternate Councilor
Jack Ly

ACS USNCO Recruitment Grant

The goal of the ACS USNCO recruitment grant program is to increase participation of female and underrepresented minority students in the US National Chemistry Olympiad. Only ten local sections are awarded this grant each year, so it is notable that the Dayton Section was awarded the recruitment grant last year and again this year.

The Section is grateful for the efforts of the chemistry teachers and staff from Miami Valley high schools, who have made our Chemistry Olympiad program successful. For more information about the 2022 USNCO program and exams, please contact Dr. Weijie Lu, the Section's coordinator, at wlu615@gmail.com.

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 E L N N O T U ○ ○ □ ○ □ ○ □
 A E R T W ○ ○ □ □ ○
 A E E H N T □ ○ □ ○ □ ○

Tired of being ridiculed at the Element Bar for his bashful bladder, Kenny heads south of the railroad tracks to the Ion Tavern, where he orders $U_2O_7^{2-}$. After nursing his drink for an hour, the bartender asks him if he wants another. "Oh, *no*" Kenny replies. "Why the hell not?" asks the bartender. "Because *then*," Kenny explains, "I'd have

○○○ □○○○○○○○ "!"

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.

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

Answers for Last Edition

PHENOL WATER INDIUM

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 **PAIRED WITH U!**"

Quotable Quotes for \$1000, Alex!

"You can take a dog outside, but you can't make him pee."

– Micah Amyx

"When people try to rain on your parade, pee on theirs."

– Josh Stern

"If the universe is bigger and stranger than you can imagine, you're better off facing it with an empty bladder."

– John Scalzi

"You hate birthdays, yet you pee in your pants over presents. There is clearly something wrong with you."

– T.E. Sivec

AAT-2 Solution for Last Edition

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

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