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OAS NEWSLETTER - SUMMER 2021, PART I

Dear Members, Friends, and Volunteers,

Brood X has arrived in full force, and then some. It's nature's loud, "white noise". While I prefer the sound of the ocean, the cicada's life cycle is truly remarkable. Perhaps it's the scarcity factor of only seeing them every 17 years that makes it tolerable for some, but for our entomophobic friends, well that's a whole other scientific discipline. Hang in there, either way it's only another couple of weeks.

[The Ohio Journal of Science](#)



The Ohio Journal of Science (OJS) has published peer-reviewed, original contributions to science, education, engineering, and technology since 1900. Authors include academic professionals, undergraduate and graduate students and high-achieving high school students. The OJS encourages submission of manuscripts relevant to Ohio, but readily considers all submissions that advance the mission of The Ohio Academy of Science to foster curiosity, discovery and innovation to benefit society.

Peer-reviewed articles are published as accepted throughout the year and compiled at year end into a single, digital volume. Guidelines may be found here and direct questions may be sent to ojs@ohiosci.org

Recent Manuscripts

New Record of Terminal Pleistocene Elk/Wapiti (*Cervus canadensis*) from Ohio, USA

Brian G. Redmond, David L. Dyer, Charles Stephens

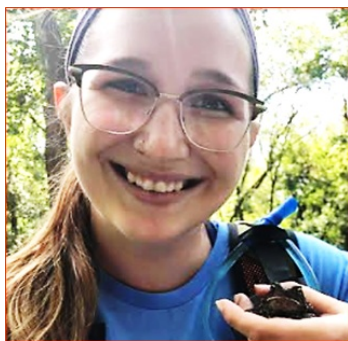
Reaction Times for Esport Competitors and Traditional Physical Athletes are Faster than Noncompetitive Peers

Anh Luu, Avory Winans, Rema Suniga, Vicki A. Motz

Effects of Short-Term Exposure to Diesel Exhaust on the Ecophysiology, Growth, and Fecundity of Soybean (*Glycine max* (L.) Merr.) and Chicory (*Cichorium intybus* L.)

Susan Y. Jaconis, Theresa M. Culley, Timothy Keener, Alexandra M. Odom, Robert Elam, Marissa S. Liang

OAS Undergraduate Research Awards



[Emily Gremling, Ohio Northern University](#)

This year the OAS Undergraduate Research Award at Ohio Northern University went to Emily Gremling, an Environmental and Field Biology Major from Lima Ohio. Emily's interests in organismal biology have translated into extensive research. Emily has mastered

advanced molecular biology techniques such as genomic DNA extraction from animal tissues, polymerase chain reaction (PCR), agarose gel electrophoresis, and DNA sequencing, with minimal training and has become an independent, self-sufficient researcher in the laboratory. Emily's capstone project was DETERMINING THE GENOME OF A KLEPTOGENIC SALAMANDER SPECIES. This project sought to characterize two Ohio unisexual salamander populations found in Cuyahoga and Hardin Counties. Congratulations, Emily!

[Mystal Jackson, Lorain County Community College](#)

Congratulations to Mystal Jackson from Lorain County Community College for being recognized with the Ohio Academy of Science Undergraduate Research Award. Mystal has been conducting independent research at LCCC since 2017 on the science of the flavor of whiskey under the direction of Professor Regan Silvestri. Her current research is on the reformulation of commercially available mineral waters, which aims at producing the recipe for an optimally flavored mineral water that can subsequently be synthetically formulated. Mystal earned an Associates of Arts degree in May 2020, an Associates of Science degree in August 2020, and is currently taking courses at LCCC in pursuit of a Bachelors of Science degree in Chemistry while



simultaneously working as a Laboratory Technician at The Coatings Research Group. Mystal has also been recognized twice as a NASA Ohio Space Grant Consortium Community College Scholar. In addition to her passion for science, Mystal is also an artist, an avid bike rider, and a successful independent business owner. Kudos Mystal!

National Youth Science Camp

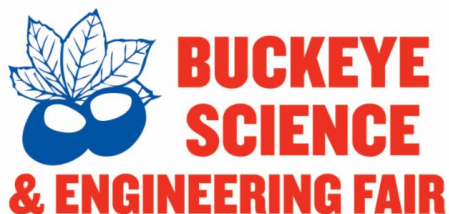


The National Youth Science Camp (NYSCamp) is a residential science, technology, engineering, and mathematics (STEM) program designed to honor and challenge some of the nation's rising leaders and provide them with opportunities to engage with STEM professionals and participate in exciting outdoor activities. Typically, two delegates are selected to attend camp from each state and the District of Columbia. The Ohio Academy of Science is Governor DeWine's designee to select Ohio's delegates.

The 2021 NYSCamp will be held virtually and all expense are covered through funding by the National Youth Science Foundation. Ohio's delegates are selected through an application process that emphasizes academic achievement, scientific accomplishment, civic engagement, and well-rounded aspects of leadership.

The Ohio Academy of Science is proud to announce the 2021 NYSCamp delegates.

[Lauren Menke, Versailles HS \(Versailles\)](#) and [Vivien Marmmerstein, Western Reserve Academy \(Hudson\)](#).



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A total of 95 students from 39 high schools competed at the Buckeye Science & Engineering Fair for the opportunity to advance to the Regeneron International Science & Engineering Fair (ISEF), the world's most prestigious STEM competition for high school students.

2021 ISEF Finalists to represent the Buckeye Science & Engineering Fair

Mr. Mihai Crisan – 11th Grade, Upper Arlington HS (Upper Arlington)
Mr. Johan DeMessie – 10th Grade, William Mason HS (Mason) – ISEF 3rd Award i
Mr. Anish Gupta – 11th Grade, Sylvania Northview HS (Sylvania)
Mr. Haroon Lughmani – 11th Sylvania Northview HS (Sylvania) – ISEF 3rd Award
Mr. Ameya Saraf – 11th Grade, William Mason HS (Mason) – ISEF 4th Award
Ms. Lisa Sebastian – 12th Grade, Bethel HS (Tipp City)

Please forward this email on to any of your colleagues that may be interested in the Academy or our programs, and contact us any time for more information.

Sincerely,



Michael E. Woytek
Executive Director

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