



## VTeen 4-H Science Pathways Café



TEEN SCIENCE CAFÉ  
NETWORK

### Potato Batteries & Exploding Gummies: A Peek into the World of Chemistry

Saturday, May 6, 2023, 5:00-7:00 pm

University of Vermont, Davis Center, Mansfield Dining Room

FREE pizza and drinks; Open to all youth in grades 7-12

Register@ [www.uvm.edu/extension/youth/announcements](http://www.uvm.edu/extension/youth/announcements)

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e<sup>-</sup>xcited for e<sup>-</sup>chem!

Learn about electrochemistry via exploding gummy bears!

Make your own vegetable/fruit-based batteries!

In this café, you will explore different aspects of electrochemistry through a couple of different demonstrations and activities. Participants will first develop a hypothesis and test the concept of redox reactions - reactions in which molecules lose an electron (oxidize) or gain an electron (reduce) through exploding gummy bears. In a second hands-on activity, you will be able to create your own batteries using fruits and vegetables to power small lightbulbs. You will be asked to come up with

a hypothesis about which fruits/vegetables will make the best batteries, discuss why, and be able to test them out. So, sign up today and get e<sup>-</sup>xcited for e<sup>-</sup>chem!

### ABOUT OUR SPEAKER

**Dr. Yangguang Ou** is an Assistant Professor of Chemistry at the University of Vermont. She specializes in the field of analytical chemistry, including electrochemistry. Her lab makes electrochemical sensors to measure biomarkers in the brain and related systems. The goal of her research is to help understand the underlying cause of a lot of brain related disorders. She is also a Pipeline Investigator in the Vermont Center for Cardiovascular and Brain Health and a faculty member of the Neuroscience Graduate Program and the Cellular, Molecular, and Biomedical Sciences Graduate Program.

**What is a Teen Science Café?** It is a free, fun way for teens to explore science, engineering and technology with local scientists, engineers and technology experts. Teens participate in informal discussions and hands-on activities to learn about different topics. And, there is always free food! Planned and run by teens for teens.

**Questions?** Contact [lauren.traister@uvm.edu](mailto:lauren.traister@uvm.edu)

*To request language interpretation/translation assistance and/or a disability-related accommodation to participate in this program, please email [lauren.traister@uvm.edu](mailto:lauren.traister@uvm.edu) or call 802-65607565 no later than April 14, 2023 so that we may assist you.*



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