



MAPS offers free, informative, and engaging community science programs. **Fall, 2021 Schedule**
7:30 pm, participate by logging on to an Internet Link.

Please go to <https://www.mjc.edu/instruction/sme/maps.php> to sign up for notification of the link.

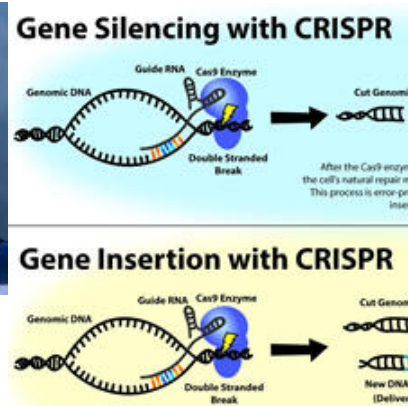
For archived MAPS talks: <https://share.yosemite.edu/view.aspx?i=1E7L>

Friday, Sept. 24, 2021. zoom/YouTube,
Using CRISPR to Fight Genetic Disease.

Gokul Ramadoss (UCSF) was recently named a "Discovery Fellow," an advanced PhD. student chosen to serve as an ambassador for basic science education because of his leadership potential, excellence in research, and communication skills. The talk will focus on the development of safer and more precise CRISPR tools for therapeutic genetic/epigenetic editing. He is especially interested in applying these tools to treat neurodegenerative diseases.

<https://www.youtube.com/watch?v=CxKYZH0IuIE>

[Gokul Ramadoss | Kampmann Lab \(ucsf.edu\)](#)



Friday, Oct. 22, 2021. Zoom/youtube, **Dr. Evan Reed**
How Artificial Intelligence Can Design Better Batteries.

(Stanford) Developing new batteries is extremely challenging and time consuming but is required to enable critical applications from renewable energy to transportation and the internet of things. I will discuss how AI is shedding new and useful insights into this complex problem.

[Evan Reed | Materials Computation and Theory Group \(stanford.edu\)](#)

[Evan Reed's Profile | Stanford Profiles](#)

[Evan Reed: How to discover a magic material - Bing video](#)



Friday, Nov. 19, 2021. Dr. Steve Farmer (Ph.D., UCD), zoom with group meeting and treats. ***Some Strange Things About Candy.*** <http://www.acs-sacramento.org/strange-chemistry-with-steve-farmer/>

Friday, Dec. 10, 2021. Zoom Dr. Margaret Turnbull (Ph.D. Univ. of Ariz., SETI Inst., NASA Ames), ***Will There Ever Be***

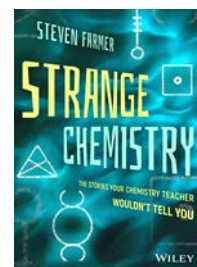
Another Earth? The search for life beyond Earth, especially intelligent life, is a multifaceted quest that folds together many branches of scientific study with the human imagination. As of today, thousands of planets are known to exist, including dozens of planets that are the size of the Earth. But what are these worlds really like, in terms of temperature, weather, atmosphere, continents, oceans, seasons, and even life? Maggie will discuss some of her work toward the goal of seeing nearby planetary systems directly, in order to discover their true nature. Dr. Margaret (Maggie) Turnbull is an astrobiologist at the SETI Institute. The focus of her research is on identifying planetary systems that are capable of supporting life as we know it.

[UA Astrobiologist Helps NASA Search for Life on Other Planets | University of Arizona News](#)

[Margaret Turnbull | SETI Institute](#)

[Margaret Turnbull - Wikipedia](#)

[Do Any Exoplanets Have Intelligent Occupants? \(SETIcon 2\) - YouTube](#)



MAPS is grateful to MJC, the MJC Foundation, SCOE, the MTA Modesto Teachers Assn. and the GVM for generous support.

PLEASE NOTE CHANGE OF DATE IN DECEMBER FROM 12/3 TO 12/10.