



The WV STEM Club is a social organization which meets monthly for lunch with a speaker on a topic of interest. Short field trips are occasionally scheduled. Membership is open to anyone who has worked in or has an interest in Engineering, Science or Technology. Meetings are held at 11:30am on the first Friday of each month (unless otherwise noted), October through June, at Grandview Terrace, in the fourth-floor ballroom, at 14515 W. Granite Valley Drive, Sun City West, AZ. **Guests and visitors are always welcome.** Contact Phil Main: maintwin3@gmail.com, 623-826-0101 (cell).

NOVEMBER 7 PROGRAM

Farmers are 40 years Ahead of Oncologists ASU Biodesign Institute's Cancer Research Carlo Maley, PhD



Professor Carlo Maley is a biologist who specializes in cancer, evolution and computational biology. He works at the intersection of these fields. His team uses genomic data mining, phylogenetics, computational modeling and wet lab techniques to solve these

problems. In their work, the Maley team focus on developing better methods to prevent cancer and improve cancer management. Education: Ph.D. Massachusetts Institute of Technology 1998; M.Sc. University of Oxford 1993; B.A. Oberlin College 1991. Consulting: Strategic advice and recruitment consulting for the Norton Thoracic Institute at St. Joseph's Hospital and Medical Complex in Phoenix.

Abstract

Farmers and oncologists have similar problems. When a farmer sprays a field with pesticides, they kill most of the pests, but some pests carry mutations that make them able to tolerate the pesticide. That mutant pest population can then regrow and destroy the crops. The same thing happens in oncology. Chemotherapies tend to kill most of the cells in a cancer, but leave behind mutant cancer cells that are able to tolerate the cancer drug. The cancer then regrows and can kill the patient. Oncologists often combine multiple cancer drugs in hopes that there won't be cells that are able to tolerate all the drugs. Farmers figured out that that doesn't work back in the 1980's. Since then, they have developed a variety of tools for controlling pests. I will tell you about the innovations in pest management and how we are translating them to oncology.

PRESIDENT'S MESSAGE

Gary Graunke

Want to go on a field trip without a lot of travel? Every November we have a table at the free Surprise SciTech festival. But it's not just booth duty—we take turns touring all the other groups and talking with a diverse group of exhibitors. Where else can you learn about Waymo's biggest problem except to talk to the employee at the exhibit (it is getting rear-ended by tailgaters when they slow for hazards that most drivers would miss). You don't have to go to Alamo Lake to view sunspots with the West Valley Astronomy Club. Many of our public services and utilities are there to provide helpful information and advice. And it's a treat to talk to students who are doing robotics we could only dream of when we were in high school. As we age, the health and wellness exhibits also provide beneficial information and links to resources.

To find out more visit <https://surpriseaz.gov/497/SciTech-Festival>.

This year's date is November 22 from 10 a.m. to 2 p.m. at park at 15960 N. Bullard Ave. We have a sign-up sheet at November meeting for two-hour shifts, or just drop by.

We will be holding elections at the November meeting for the 2026 officers. But you can always join our board as a member-at-large: there are a number of committees that can use your help and match your interests. We are looking into changing our monthly board meeting times to better accommodate interested members with schedule conflicts.

Scholarship Donations

The West Valley STEM Club is continuing our Annual Scholarship Fund Donation Event at our December and January meetings. Please consider contributing!

WEST VALLEY STEM November 2025

2025 OFFICERS

President	Gary Graunke
Vice President	Bob Parizek
Secretary	Betty Goldberg
Treasurer	Carol Mungus
Asst. Treas.	Dave Campbell

COMMITTEE CHAIRPERSONS

Programs	Jim Schlenvogt/ Peter Rauen/ Rick Cecil
Membership	Steve Sumner
Reservations	Philip Main
Luncheons	Jim Schlenvogt
Scholarship	Jim Schlenvogt
Member at Large	Don Zoss
Newsletter	Dave and Karen Campbell
Website	Gary Graunke
Event Audio/Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	Bob Parizek
Past President	Jim Schlenvogt

Email the Board at: js3820@msn.com

DECEMBER 5 PROGRAM

The Science of Food Irradiation

Joe Butterweck, Retired

2025 MEETING DATES

The Club's meeting dates for 2025:

11/07/2025 (First Friday of the Month)

12/05/2025 (First Friday of the Month)

TREASURER'S REPORT JUNE 2025

Gross General Fund Balance	\$9471
Net Fund Balance (after payment of obligations)	\$5612
Membership	109

The October 50/50 winner was Marilyn Dumond. Thank You for Your Support!

OCTOBER 3 PROGRAM

Making Strides Against Parkinson's Disease Through Clinical Trials

Dr. David R. Shprecher, DO MSCI, FAAN
Movement Disorders Director
Banner Sun Health Research Institute



2026 MEMBERSHIP DUES

Dues for 2026 are \$25.00 of which half goes to the Scholarship Fund. **Please consider making an additional donation to the Scholarship Fund** (put scholarship in the memo line). Please mail your check(s), made out to West Valley STEM to:

Philip Main
17604 N Buntline Drive
Sun City West, AZ 85375-5148
maintwin3@gmail.com ,
623-748-8222 (Home)
623-826-0101 (Cell)

SPEAKERS NEEDED

If you or someone you know will provide a STEM presentation for a future meeting, please contact

Jim at js3820@msn.com.

HAPPY
THANKSGIVING