



## March 2024 Newsletter

[www.engineersaz.com](http://www.engineersaz.com)

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](mailto:maintwin3@gmail.com), 623-826-0101 (cell).

### MARCH 1 PROGRAM

#### F35 Aircraft Training Program

Eric N. Ringelstetter, Lt Col, USAF  
Commander, 56th Training Squadron  
Luke Air Force Base



Eric N. Ringelstetter is currently Commander of the 56th Training Squadron at Luke Air Force Base. As Commander he leads over 200 Airmen, government civilians, and contractors to educate and train F-16 and F35A pilots for the U.S Air Force and six partner nations.

Rating: Command Pilot, Flight Hours: 1722, Combat Hours: 268  
Aircraft Flown: T-6, T-38, F-16, F-35

Education: 2005 BS in Applied Mathematics, U. of Colorado; 2013 MA in International Relations, U. of Oklahoma; 2018 MA in Military Operations, U.S. Army School of Advanced Military Studies.

### MARCH 6 FIELD TRIP

March 6, 2024, 9:30 AM

#### Waddell Dam & Lake Pleasant Facilities

Meet at the West Lake Pleasant Visitor Center Parking Lot, 41835 N. Castle Hot Springs Rd, Morristown, AZ 85342. Sign-up sheet is with George Zieglgansberger or Jim Schlenvogt.



### PRESIDENT'S MESSAGE

Jim Schlenvogt

Hello everyone! **On March 1, 2024 the Club will return to Grandview Terrace for our normal meeting place and time.**

In January we heard from Harvey Hess, *An Automated World, A/I & Robots...Does Your Job Survive*, whereas Harvey presented the current & soon-to-be state of technology, what the new technologies with A/I and Robotics was about to do within the job market and a few solutions that those who will be affected can pursue.

The discussion centered around everything from autonomous travel via land and air to the up-and-coming Quantum computers that are 158 million times faster than today's supercomputers. There's no doubt that some major shifts in employment and ways people will earn an income will occur with the advent of all these new converging technologies. Harvey offered two websites,

- 1) [www.WillRobotsTakeMyJob.com](http://www.WillRobotsTakeMyJob.com) where you can search your chosen profession and view a risk analysis and
- 2) [www.MyJobOrRobots.com](http://www.MyJobOrRobots.com) where you can receive two reports, *The Top 20 Jobs About to be CRUSHED by Technology* and *The Top 20 Most Common Jobs by 2040*.

Following are some of the Club's future luncheon meeting topics, which the Club has scheduled:

- Luke Air Force Base – F35 Fighter Jet Training Program
- Quantum Computing
- TGen's Pancreatic Cancer Research
- Design, Development and Testing of Innovative Materials for Urban Cooling
- Using Satellites to Track Groundwater to Help Make Sustainable Decisions

The next Field Trip is planned on **Wednesday, March, 6, 2024, 9:30 am to 11:00 am.** Meet at the West Visitor's Center Parking Lot for a presentation by CAP management and to tour the Waddell Dam and Lake Pleasant area. Please sign-up at the check-in table.

**SAVE THE DATE:** The Club is planning a "Bonus" Spring Picnic Social Event to start the celebration of the Club's 50<sup>th</sup> Anniversary on

**Monday, April 15, 2024, 10:00 am to 2:00 pm** at the Beardsley Park in Sun City West. More information to follow in future emails and newsletters.

The Club's internet website is available again:

[www.engineersaz.com](http://www.engineersaz.com)

We look forward to seeing you at the next meeting. Bring a guest! Safe Travels and Good Health!

# WEST VALLEY STEM March 2024

## 2024 OFFICERS

President	Jim Schlenvogt
Vice President	George Zieglgansberger
Secretary	Darrell Armbruster
Treasurer	Carol Mungas
Asst. Treas.	Dave Campbell

## COMMITTEE CHAIRPERSONS

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

Email the Board at: [js3820@msn.com](mailto:js3820@msn.com)

**Abstract:** Professor Arenz will discuss the history of quantum computing and how it differs fundamentally from the standard or digital computer. He will discuss how quantum computing offers the possibility of solving problems that can't reasonably be solved by a standard computer and its application to current research areas such as artificial intelligence."

## 2024 MEETING DATES

**March 1st, April 5th, April 15th (PICNIC),  
May 3rd, June 7th, October 4th,  
November 1st, and December 6th.**

## FEBRUARY 2, 2024 PROGRAM

**Psyche: Exploration of a Metal World**

**Dr. David A. Williams, Research Professor  
School of Earth and Space Exploration, ASU**



## TREASURER'S REPORT FEBRUARY 2024

Gross General Fund Balance	\$10,921.41
Net Fund Balance (after payment of obligations)	\$10,921.41
Membership	107

The 50/50 winner for February was Darrell Armbruster. His share was \$70 & he donated it all to the Scholarship Fund. Thank You for Your Support!

## APRIL 5 PROGRAM

### Quantum Computing

**Professor Christian Arenz  
School of Electrical, Computer and  
Energy Engineering, ASU**



Professor Arenz joined Arizona State University as an assistant professor in the School of Electrical, Computer and Energy Engineering in January 2022. Prior to joining ASU he was a lecturer and an associate research scholar at Princeton University. Previously, he completed his PhD in applied mathematics at Aberystwyth University in 2016, where he focused on the control of open and noisy quantum systems.

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## 2024 MEMBERSHIP DUES

Dues for 2024 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](mailto:maintwin3@gmail.com) , 623-748-8222 (Home), 623-826-0101 (Cell)