



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).

## FEBRUARY 2 LOCATION ALERT

The Club has been informed that due to the Grandview Terrace's 4<sup>th</sup> Floor Ballroom remodeling project, our **February 2, 2024 meeting (ONE MONTH ONLY) will be relocated to the following Sun Health location:**

### THE COLONNADE

Ballroom, next to the Reception Desk.  
19116 N. Colonnade Way, (623) 236-3770,  
[www.TheColonnade@SunHealth.org](http://www.TheColonnade@SunHealth.org)

The meeting will be the same time, format, and a delicious luncheon will be available.

the Geological Society of America, and asteroid 10,46Dawilliams was named in his honor. He was the Secretary of the Planetary Sciences Section of the American Geophysical Union in 2019-2020.

**Abstract:** Main Belt asteroid (16) Psyche is the largest M-type asteroid in the Solar System, thought to be the exposed Fe-Ni core of an asteroid parent body. This class of asteroid has not been explored by an orbiter mission before – until now. On October 13, 2023, NASA's robotic Psyche spacecraft launched on a mission to orbit and explore this asteroid. How will the exploration occur? Join Professor David Williams of ASU's School of Earth and Space Exploration, who is the deputy lead on the Psyche imaging cameras, for a discussion of this fascinating new ASU-led NASA planetary mission.

## FEBRUARY 2, 2024 PROGRAM

### Psyche: Exploration of a Metal World

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



Dr. David A. Williams is a Research Professor in the School of Earth and Space Exploration at Arizona State University, Tempe, Arizona. Dr. Williams is the Director of the Ronald Greeley Center for Planetary Studies, a NASA-supported planetary data center at ASU. David is currently performing research in volcanology and planetary geology,

with a focus on planetary mapping, geochemical, and remote sensing studies. His research has included computer modeling of seismic wave propagation through planetary interiors, visible and near-infrared spectroscopy of the lunar surface, planetary geologic mapping of the satellites of Jupiter and Saturn, the planet Mars, the asteroid Vesta and the dwarf planets Ceres and Pluto, computer modeling of the physical and geochemical evolution of lava flows in a variety of planetary environments, and petrologic study of lava samples from Mount St Helens. He was involved with NASA's Magellan Mission to Venus, Galileo Mission to Jupiter, the European Space Agency's (ESA's) Mars Express orbiter mission, and the NASA Dawn Mission to asteroid Vesta and dwarf planet Ceres. He is currently a Co-Investigator and Deputy Lead for the multi-spectral imager on NASA's Psyche Mission, which launched on October 13, 2023. He is also a member of the Italian JANUS camera team of the ESA Jupiter Icy Moons Explorer (JUICE) mission that launched on April 14, 2023. In 2014 David was elected a Fellow of

## PRESIDENT'S MESSAGE

### Jim Schlenvogt

Hello everyone! Welcome to the start of another interesting year! The Board of Directors has been busy planning the new 2024 programs, and several field trips or community activities.

**The Board of Directors and the Scholarship Committee want to say THANK YOU to everyone who donated to the 2024 Scholarship Fund. For October to January, the Club members have donated \$2,196.**

The Club is entering our 50<sup>th</sup> year anniversary in 2024 and 2025. Following is some historical information:

- The Club was organized as the Engineers Club of Sun City.
- The Club had their first organizational meetings in April and September, 1974.
- The first Club Bylaws was adopted October 14, 1974.
- At the December 11, 1974 meeting, the first slate of Club officers was elected .
- Total membership in December, 1974 was 100 members.
- The first meeting with a speaker was on February 10, 1975.
- In the early 2000's, the meetings were moved to the Sun City West area.

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

Luke Air Force Base – F35 Fighter Jet Training Program  
TGen's Pancreatic Cancer Research

The next Field Trip is planned in March, TBD, 9:00 am to 10:00 am, to tour the Waddell Dam and Lake Pleasant area. Please sign-up at the Check-in table. *(Continued on pg 2)*

# WEST VALLEY STEM February 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	Hal Lind
Newsletter	Dave and Karen Campbell
Website	Gary Graunke
Event Audio	Hal Lind/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)

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**SAVE THE DATE:** The Club is planning a "Bonus" Spring Picnic Social Event on **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!

## 2024 MEETING DATES

February 2nd, March 1st, April 5th, April 15th (TBD), May 3rd, June 7th, October 4th, November 1st, and December 6th.

## JANUARY 5 PROGRAM

### An Automated World...AI & Robots Does Your Job Survive?

Harvey Hess

Public Speaker, Author, Entrepreneur



Websites referenced in the talk

[MyJobRobots.com](http://MyJobRobots.com)

<https://WillRobotsTakeMyJob.com/>

## 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)

## TREASURER'S REPORT JANUARY 2024

Gross General Fund Balance	\$10,434
Net Fund Balance (after payment of obligations)	\$10,434
Membership	100

The 50/50 winner for December was Pat Ryan, her share was \$130, Thank You for Your Support!

## 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.