



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).

JANUARY 5, 2024 PROGRAM

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

Harvey Hess



Former President of Circle K International and Director of Worldwide Franchising/ an Independent Contractor with North America's largest manufacturer direct to consumer online store, Melaleuca.com, the Wellness Company/ Author and Speaker/ his books include, Income Innovations and An Automated World.

Abstract: New forms of information, technology, innovation, and systems, including, (AI/ Artificial Intelligent & Robots) will have an impact on how we think, and live. Artificial intelligence leverages computers and machines to mimic the problem-solving and decision-making capabilities of the human mind. Harvey Hess will specifically concentrate during this discussion on the impact AI & Robotics will have on careers. Advancements are happening now almost as fast as the speed of light.

FEBRUARY 2 LOCATION ALERT

The Club has been informed that due to the Grandview Terrace's 4th 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

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

2024 MEETING DATES

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

PRESIDENT'S MESSAGE

Jim Schlenvagt

Hello everyone! Welcome to the end of the Holiday Season and 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.

On November 18th the city of Surprise had to cancel their annual SciTech Festival due to an overnight rain storm. We will try to participate next year, so volunteers will be welcomed.

The Club has been informed that due to the Grandview Terrace's 4th Floor Ballroom remodeling project, our February 2, 2024 meeting (ONE MONTH ONLY IN FEBRUARY) will be relocated to the following Sun Health location: THE COLONNADE, Ballroom, next to the Reception Desk.

The Board of Directors and the Scholarship Committee want to say THANK YOU to everyone who donated to the 2024 Scholarship Fund. A summary of the overall donations will be provided in February.

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

- An Automated World.....Artificial Intelligence (AI) & Robots/ Does Your Job Survive?
- NASA's Psyche Mission to an Asteroid
- TGen's Pancreatic Cancer Research

Late in November and early December, the Club's internet website was temporarily down so we could renew our GoDaddy account: www.engineersaz.com

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

Scholarship Donations

The West Valley STEM Club is continuing our Annual Scholarship Fund Donation Event at our January meeting.

WEST VALLEY STEM January 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

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 multispectral 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 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.

TREASURER'S REPORT DECEMBER 2023

Gross General Fund Balance	\$13,840
Net Fund Balance (after payment of obligations)	\$10,159
Membership	90

The 50/50 winner for December was David Campbell who donated the \$57 to the Scholarship Fund, Thank You for Your Support!

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

DECEMBER 1 PROGRAM

Arizona - Science of Groundwater
Aquifer Replenishment

Cera Linehan

Arizona Department of Water Resources
Groundwater Modeling Section



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, 623-748-8222 (Home), 623-826-0101 (Cell)