



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).

## FEBRUARY 6 PROGRAM

### Beyond the Buzz: Alcohol's Impact on Cognitive Health

**Claudia Hristova, PsyD,  
Neuropsychology Fellow, Banner Alzheimer Institute &  
Sun Health Research Institute**



Claudia Hristova I recently joined the Banner Sun Health Research Institute as a Postdoctoral Neuropsychology Fellow. My training has focused on conducting neuropsychological assessments and providing therapy to older adults, some with neurodegenerative diseases and other with comorbid severe mental illness, in both inpatient and outpatient settings. I am deeply passionate about working with older adults and advancing the fields of neuropsychology and geropsychology.

**Abstract:** This presentation explores the complex relationship between alcohol consumption and cognitive functioning. The presentation highlights the short- and long-term effects of alcohol on the brain, including its role in neurotoxicity, cognitive impairments, and conditions such as Alcohol-Related Dementia and Wernicke-Korsakoff Syndrome. It also incorporates recent research on recovery potential and emerging treatments.

## PAST PRESIDENT'S MESSAGE

### Steve Sumner

For the new members, I was President of the Club from 2019 to 2021, inclusive, which included the COVID Pandemic years. Back then we watched our membership numbers decline as a result of not being able to hold In-Person luncheons. It is great to see our numbers increasing again. We are reiterating the plea for folks to come forward to volunteer for Board positions. We still are looking for a President to serve for the next year. We also need to fill the position of Reservations Committee Chairperson. Past presidents such as myself and Jim Schlenvogt are more than willing to serve as mentors. Phil Main will be available to serve as mentor for the Reservations Chairperson. Remember that this is YOUR club and without folks to serve in Board positions, the club will not be able to survive.

Within the next few weeks, the Scholarship Committee will begin interview candidates for the 2025-2026 scholarship. The goal is to have a potential scholarship winner by the end of March, 2025. As a reminder, the Club is still entertaining contributions for this scholarship year. We may be in a position to award multiple scholarships, depending upon subsequent contributions. Thank you for your generosity.

The originally planned Field Trip of February to the Biodesign Institute at ASU in Tempe has been revised to March 12, 2025. ASU needed at least 30 days notice to schedule the Field Trip. The address is 727 East Tyler Street, Tempe, AZ 85281. Parking is in the Tyler Parking Structure at McCallister Avenue and Tyler Street, north of Biodesign or south of Biodesign at Rural Road between Terrace and Lemon. George Z. will have further information and a Sign-Up sheet available at the February meeting. He will also answer any questions.

As a courtesy to our speaker and to fellow attendees, it is appreciated if you will turn off or mute your cell phones during the presentation.

Our next Luncheon meeting is March 7, 2025, the FIRST Friday of March. Thank you for your continued participation.

## ASU BIODESIGN FIELD TRIP MARCH 12

We are confirmed for the Biodesign Tour on March 12 from 11 AM until 1 PM. Lunch will be served at noon, prizes will be handed out, and parking will be included, all for \$25.00.

George will be taking names and collecting the \$25.00 at our next luncheon meeting on February 3. Only cash or checks are accepted.

**For questions, contact George Z. at:  
[gziggy@att.net](mailto:gziggy@att.net)**

## 2025 MEMBERSHIP DUES

Dues for 2025 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)

# WEST VALLEY STEM February 2025

## 2025 OFFICERS

President	Open
Vice President	Gary Graunke
Secretary	Betty Goldberg
Treasurer	Carol Mungas
Asst. Treas.	Dave Campbell

## COMMITTEE CHAIRPERSONS

Programs	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	Paul Scherer
Event Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	George Zieglgansberger
Past President	Jim Schlenvogt

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

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 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:** Jupiter's icy moon Europa was revealed by NASA's Galileo mission in the 1990s to contain a salty, liquid water ocean beneath its icy surface. Since the late 1990s, planetary scientists including ASU's Ronald Greeley (1939-2011) led the effort to send a dedicated mission to Europa, with modern instruments, to assess its habitability. Now that mission has come to fruition, which the launch of Europa Clipper on Monday, October 14, 2024. Professor Williams will discuss Europa, why it is important, and how NASA and ASU will explore this mysterious moon and search for evidence for life.

## TREASURER'S REPORT JANUARY 2025

Gross General Fund Balance	\$9,430.13
Net Fund Balance (after payment of obligations)	\$8,764.73
Membership	111

The January 50/50 winner was Bob Parizek. He donated his \$96 to the Scholarship fund. From the December & January Club Meetings, the Club received \$1,443 for the Scholarship Fund. Thank You for Your Support!

## 2025 MEETING DATES

The Club's **REVISED** meeting dates for 2025:

- 03/07/2025 (First Friday of the Month)
- 04/04/2025 (First Friday of the Month)
- 05/09/2025 (SECOND Friday of the Month)
- 06/06/2025 (First Friday of the Month)

## MARCH 7 PROGRAM

### NASA Europa Clipper: Exploring an Ocean 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

## JANUARY 3 PROGRAM

### Sustainability of Arizona's Ground Water Supply using Satellite Tracking Data

Jay Famiglietti, Satellite Hydrologist, Chief Scientist of the Arizona Water Innovation Initiative, Global Futures Professor in the School of Sustainability, Arizona State University

