

WEST VALLEY STEM CLUB

DECEMBER 2023 NEWSLETTER www.engineersaz.com

The WV STEM Club is a social organization which meets monthly for lunch with a speaker on a topic of interest. Spouses and guests are invited and many attend regularly. 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 are always welcome. Contact Phil Main: maintwin3@gmail.com, 623-826-0101 (cell).

DECEMBER 1 PROGRAM

Arizona - Science of Groundwater Aquifer Replenishment

Cera Linehan

Arizona Department of Water Resources Groundwater Modeling Section

Cera Linehan is a hydrogeologist with the Arizona Department of Water Resources Groundwater Modeling Section. She completed a Bachelor of Science in Geology at Arizona State University in 2018 and since then has been working in natural resource management at both the federal and state levels. She started her career as an intern with the Tonto National Forest where she primarily worked in the field to verify water right locations in preparation for the Verde River Adjudication. In 2019, Cera began working in the Adjudications Division at ADWR where she advised and aided the court in water rights legal cases. After three years working in water rights, Cera joined the groundwater modeling team as a hydrogeologist. She provides support to senior modelers and builds datasets used in the regional models developed by the team.

Abstract: The presentation will explore the Arizona Department of Water Resources Recharge program as well as provide an explanation on naturally occurring recharge. The discussion about the ADWR recharge program will focus on the types of recharge facilities that are qualified for groundwater credit permits.

Natural recharge rates vary due to a multitude of reasons with urbanization, geology, and regional climate being some of the major factors. The presentation will talk about how these components impact recharge and how ADWR estimates rates for studies.

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.

PRESIDENT'S MESSAGE

Jim Schlenvogt

Hello everyone! Welcome to the start of the Holiday Season!

At the November 3rd meeting, nominations from the floor were requested and the following members have been elected as the West Valley STEM Club 2024 officers:

President: Jim Schlenvogt

Vice President: George Zieglansberger

Secretary: Darrell Armbruster

Treasurer: Carol Mungas

The officers will assume office at the January 5, 2024 meeting. In addition, if you are interested in serving on the 2024 Board of Director's or becoming an Assistant Officer, please contact one of the Board members.

ASU Space Exploration Open House Day Field Trip, was November 4, 2023 on the ASU Tempe Campus, Bldg. # ISTB4 from 10:00 a.m. to 2:00 p.m. This was attended by at least four of our Club members and it was very interesting to learn about current and future space exploration projects.

On November 18th the city of Surprise hosted their annual SciTech Festival. The 2023 SciTech Festival included robotics presentations, fun experiments and an opportunity to learn and engage in STEAM-related (science, technology, engineering, art and math) programs. At the 2023 event, the Club hosted a free booth to focus on community outreach and new member recruitment.

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

Science of Arizona Groundwater Aquifer Replenishment

An Automated World.....Artificial Intelligence (AI) & Robots/ Does Your Job Survive?

NASA's Psyche Mission to an Asteroid

TGen's Pancreatic Cancer Research

The Club's internet website is active:

www.engineersaz.com

We look forward to seeing you at the next meeting. Bring a guest! Merry Christmas and Happy New Year!

Safe Travels and Good Health!

WEST VALLEY STEM DECEMBER 2023

2023 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

Scholarship Donations

The West Valley STEM Club is conducting our Annual Scholarship Fund Donation Event at our December and January meetings.

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.



TREASURER'S REPORT NOVEMBER 2023

Gross General Fund Balance	\$12,744.32
Net Fund Balance (after payment of obligations)	\$9,213.98
Membership	86

The 50/50 winner for November was Lanny Barness \$67, Thank You for Your Support!

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.

NOVEMBER 3 PROGRAM

The World of Webb, and Seeing Through the Eyes of Einstein

Dr. Rogier Windhorst

Regents' and Foundation Professor, JWST
Interdisciplinary Scientist, Arizona State University



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)