

# WEST VALLEY STEM CLUB

December 2021 NEWSLETTER [www.engineersaz.com](http://www.engineersaz.com)

The Engineers 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 Briarwood Country Club, 135th and Meeker in Sun City West, AZ. Guests are always welcome. Contact Phil Main: [maintwin3@gmail.com](mailto:maintwin3@gmail.com), 623-826-0101 (cell).

## DECEMBER 3 PROGRAM

### Hydrogeology of the Phoenix Active Management Area

Jeff Inwood, Chief Hydrologist  
Arizona Department of Water Resources



Jeff Inwood is Chief Hydrologist for the Arizona Department of Water Resources, a position he has held since August 2018. He has been with the Department since January 2013. Prior to his appointment as Chief Hydrologist, Jeff served in ADWR's Adjudications Section and Colorado River Management Unit. Prior to joining ADWR, Jeff had over 13 years

experience in water-resources consulting in the private sector. Jeff has a bachelor's degree in Geology and Business Administration from Augustana College in Rock Island, Ill. Jeff has lived in Arizona for over 30 years.

**Abstract:** This presentation will provide an overview of the hydrogeology of the Phoenix Active Management Area (AMA). The Phoenix AMA is located in the central portion of the state and includes the metropolitan Phoenix area. The presentation will focus on the general geology of the Phoenix AMA, including the geologic units, depth to bedrock, and land subsidence. Information on groundwater conditions, including groundwater level changes, water demands and supplies, regional-scale groundwater models, and physical availability of groundwater, will also be presented.

## PRESIDENT'S MESSAGE

Steve Sumner

This is my last message as President of the West Valley S. T. E. M. Club (formerly V. E. S. T.). I first like to thank the Board for their work during the last three years, especially during the last twenty months. I would also like to thank the members who have stuck with us during these trying times. During the last months we have had to tend with shutdowns of our venue at Briarwood, as well as having potential speakers advising us that they will not be able to speak in person due to COVID fears. However, the Club has been able to persevere in spite of the setbacks, though our scholarship fund has taken a hit as a result of not having in person meetings where the 50-50 drawings were used to fund the scholarships. In spite of that, we were still able to award several scholarships to worthy students entering their third year at Arizona State University.

Other accomplishments during the three years I have been President were a name change of the Club. The change from Valley Engineering, Science and Technology (VEST) to the West Valley Science, Technology, Engineering and Math (STEM) Club more accurately reflects the terminology used currently by the schools that emphasize the teaching of Science, Technology, Engineering and Math. We also adopted new By-Laws for the Club which will be available on our Website.

With the approach of Christmas I would like to appeal to everyone to contribute to our scholarship fund. There are envelopes available for you in which to place your contribution. Thank you for the privilege and honor of being your Club's President for the last three years.



## SURPRISE SCITECH FESTIVAL

On November 6, The West Valley STEM Club had a table at the Surprise SciTech Festival. We spoke with a number of the attendees and handed out many business cards and newsletters. Many thanks to Jim for arranging this and to those attending : Jim Schlenvogt, Steve Sumner, Carol Mungas, Phil Main, George Zieglgansberger, Doug Totel and Karen Campbell. This was a worthwhile event!

## WEST VALLEY STEM December 2021

### 2021 OFFICERS

President	Steve Sumner
Vice President	Jim Schlenvogt
Secretary	Marilyn Dumond
Treasurer	Carol Mungas
Asst. Treas.	Dave Campbell

### COMMITTEE CHAIRPERSONS

Programs	Peter Rauen & Jim Schlenvogt
Membership	Philip Main
Reservations	Philip Main
Luncheons	Peter Rauen
Scholarship	Jim Schlenvogt
Member at Large	Peter Rauen
Member at Large	George Zieglsangberger
Newsletter / Website	Dave Campbell
Event Audio	Hal Lind/Doug Totel
Event Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	Open
Hospitality	Open

Email the Board at: [board@engineersaz.com](mailto:board@engineersaz.com)

students are entirely committed completing their studies and are forever grateful to the West Valley STEM Club members for their scholarship assistance.

**Please consider an additional donation to the Scholarship Fund!**



November 5 Program by Dr. Matt Huentelman, PhD  
Professor Neurogenomics, TGen  
"Aging of the Brain and Alzheimer Research"  
April 2 Program by Kristen Kaus  
Manager, Education and Outreach, TGen: "A Virtual Tour"

To help with this Alzheimer research, sign up at:  
[www.mindcrowd.org](http://www.mindcrowd.org)

### TREASURER'S REPORT November 2021

General Fund Balance: \$ 7173.14

Membership Total: 84

October 50/50 was \$ 52.50 - Congratulations to winner Carol Mungas who donated her winnings to the Scholarship Fund. Thanks!

### 2021-22 VEST MEETING DATES

December 3, January 7, February 3 (Thursday),  
March 4, April 1, May 6, June 3, October 7,  
November 4, December 2

### WEST VALLEY STEM CLUB SCHOLARSHIP PROGRAM SUMMARY

Since the club's inception, awarding scholarships has been a priority and is stipulated in the club's bylaws. In the last three years, the West Valley STEM (VEST) Club has awarded seven (7) Scholarships to STEM students, who after graduating from the Glendale Community College, were transferring to ASU. The awards totaled \$13,000 and include engineering in the following areas: Biomedical (1), Mechanical (1), Industrial (2), Software/Computer Science (3).

In 2021, one year of in-state tuition, college fees and other student fees is approximately \$12,398. These

### 2022 MEMBERSHIP DUES

Dues for 2022 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)

### You Can Help Recruit New Members

- Hand out business cards to friends and family
- Leave business cards at local businesses that have a display area for them

*If you need business cards, pick them up at the luncheon or contact Jim Schlenvogt at [js3820@msn.com](mailto:js3820@msn.com)*

