

WEST VALLEY STEM CLUB

February 2023 NEWSLETTER

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 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).

FEBRUARY 3 PROGRAM

What You Need to Know about Electric Vehicles (EVs)

Jim Weichel



Jim Weichel has an MSEE from Purdue and completed Executive Management Programs at Penn State, Harvard, and Northwestern Universities. He had a nearly 30 year career at AT&T Bell Laboratories doing software development for Electronic Switching, leading software teams, and providing technical marketing support for the International market in Asia, the Middle East, Europe, and Central and South America. He then became IT Director of an \$80M department supplying distributed system and network services to 6000 customer within AT&T. He was a co-founder and President of Visual Insights, Inc. which was spun out of Bell Laboratories in 1998 when he became the COO. In 2000, he was CTO of another startup, GlobalView Software. Later, he served as CIO and Strategic Planning VP at a securities broker dealer in Chicago. After retirement, Jim served on the board of a non-profit organization and build websites for two non-profits. His last professional roll was as a consultant at Fermi National Laboratory where he provided management and technical consulting services to the Open Science Grid and led a software development project across 8 institutions. He is now fully retired, and enjoys supporting two websites, pickleball, hiking, traveling in an EV, and visiting grandchildren in Illinois and Texas. He lives in Illinois and Arizona.

Program Outline:

- History of EVs
- EV Market Status Worldwide
- Technology Adoption Curves & EVs
- EV vs ICE Characteristics
- EV Safety
- EV Economics
- Batteries and Charging
- EV Driving Experience Locally and Long Distance
- Myths Debunked

NEWS FLASH!! The West Valley STEM Club has a new meeting venue. Starting Friday, February 3, 2023, the West Valley STEM Club will be meeting at Grandview Terrace, in the fourth-floor ballroom, at 14515 W. Granite Valley Drive, Sun City West, AZ.

PRESIDENT'S MESSAGE

Jim Schlenvogt

February is a month of celebrations including Valentine's Day, President's Day and National Engineer's Week. The Club is celebrating a new meeting location at the **Grandview Terrace** located at 14515 W. Granite Valley Drive, Sun City West, AZ., for more information see: www.GrandviewTerrace@SunHealth.org. **Starting February 3, 2023**, the meeting Check-in is on the First Floor near the Receptionist area, and then you will be directed to the elevators and to the Fourth Floor Ballroom. We have scheduled a roomy location, delicious meals and very informative speakers.

The Board of Directors and the Scholarship Committee want to say **THANK YOU** to everyone who donated to the 2023 Scholarship Fund. The Club raised approximately **\$2,165**

On January 12th, four Club Board members met with five of the Department Heads at Estrella Mountain Community College (EMCC) – West Campus in Buckeye. We had a very informative presentation on the current and future plans for EMCC. Afterward, we were allowed to tour their classrooms and lab facilities. Scholarship application submittals are due February 27, 2023.

The Program Committee chaired by Peter Rauen has found speakers to discuss an outstanding list of topics, including:

- Everything You Need to Know About Electric Vehicles
- Taiwan Semiconductor (TSMC) Arizona Project
- The West Valley STEM Club's Scholarship Success Story
- The Engineering of the Lake Pleasant Dam (CAP)
- The Past and Future of Electric Vehicles
- James Web Telescope Project
- Arizona Ground Water Aquifer Replenishment Science

We are looking forward to providing more value for our members!

Finally, we have new Club Business Cards with our new monthly meeting location and related information. Please keep one new card and share the other cards with your friends, neighbors, or other people who are interested in attending our monthly meetings as a guest or who are interested in joining. We look forward to seeing you and your guests at our next meeting!

2023 WV STEM MEETING DATES

February 3, March 3, April 7, May 5, June 2

WEST VALLEY STEM February 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/Jim Schlenvogt
Membership	Philip Main
Reservations	Philip Main
Luncheons	Jim Schlenvogt
Scholarship	Jim Schlenvogt
Member at Large	Hal Lind
Newsletter / Website	Dave and Karen Campbell
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: board@engineersaz.com

MARCH 3 PROGRAM

Taiwan Semiconductor Manufacturing Co. Ltd. (TSMC) Arizona Project

Brian Harrison
Senior Vice President
TSMC



Mr. Brian Harrison is Senior Vice President of TSMC Arizona, a wholly owned subsidiary of Taiwan Semiconductor Manufacturing Co. Ltd. (TSMC). He is responsible for the successful operation of TSMC Arizona including its development, strategy and management and has been crucial in helping to build the Arizona operations from the ground up.

He brings more than 40 years of international, high-technology industry experience, working in large scale companies, covering a diverse set of roles from process engineering and factory management to international marketing and corporate integration.

Prior to joining TSMC, Mr. Harrison served as Chief Operating Officer at View, a leader in smart building technologies, where he was appointed to expand the company's manufacturing footprint and ensure operational excellence. Before this, Mr. Harrison was Senior Vice President, Integration, at GLOBALFOUNDRIES where he was responsible for integrating the IBM Microelectronics business into the company. Harrison was also president and CEO of Numonyx, which comprised of the merged memory businesses from ST Microelectronics and Intel.

Mr. Harrison began his career at Intel where, over a 24-year span, he held various executive leadership positions in manufacturing, sales and marketing, business unit P&L, factory management, engineering and technology transfer, eventually rising to become Vice President of the company's Flash Memory Group. Harrison earned a B.S. in Chemical Engineering at Stanford University and an MBA at Santa Clara University.

Education:

B.S. degree in Chemical Engineering, Stanford University
MBA, Santa Clara University

2023 MEMBERSHIP DUES

Dues for 2023 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)

TREASURER'S REPORT OCTOBER 2022

General Fund Balance: \$9,008.61

Membership Total: 69

JANUARY 6 PROGRAM

The Future of Nuclear Power Generation

Keith E. Holbert, Ph.D., P.E.

Director, Nuclear Power Generation Program
Arizona State University

