



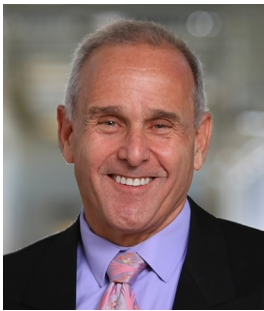
The WV STEM Club is a social organization which meets monthly for lunch with a speaker on a topic of interest. Short field trips are occasionally scheduled. Membership is open to anyone who has worked in or has an interest in Engineering, Science or Technology. Meetings are held at 11:30am on the first 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).

October 4 PROGRAM

Using Blood Tests to Measure the Strength of Our Antibody Responses to Foreigners

Dr. Joshua Labaer

Executive director of the ASU Biodesign Institute



Joshua LaBaer is one of the nation's foremost investigators in the field of personalized diagnostics. He discovers and validates biomarkers that can provide early warning for those at risk of major illnesses, including cancer and diabetes. Recruited to Arizona State University as the first Piper Chair in Personalized Medicine in 2009, LaBaer has led the Biodesign Institute at ASU as executive director of since 2016. He sim-

ultaneously directs the Biodesign Virginia G. Piper Center for Personalized Diagnostics. Previously, LaBaer was founder and director of the Harvard Institute of Proteomics. After earning a medical degree and doctorate in biochemistry and biophysics, from the University of California, San Francisco, LaBaer completed a medical residency at the Brigham and Women's Hospital and clinical fellowship in oncology at the Dana-Farber Cancer Institute, both in Boston.

Abstract: We can learn a lot about our health by looking at the antibodies we carry. Once antibodies are produced against a particular threat, memory antibodies remain in our systems to prepare us should the threat arise again. We can determine which foreigners our immune systems have faced by measuring the strength of our antibody responses to those foreigners in our blood.

ASU has developed an innovative high-throughput blood test, which marries powerful DNA sequencing technology and innovative protein chemistry, that allows us to measure our antibodies to hundreds of different possible foreign proteins in thousands of people at a time. This new tool will allow us to assess which infections we have had, even if we were not aware of the infection when it occurred. We may also be able to use it to detect some occult internal diseases like cancer. Following these measurements over time will reveal changes that signal new medical events that may benefit from intervention.

PRESIDENT'S MESSAGE

Jim Schlenvogt

Hello Again Everyone! I hope you had a terrific summer. Your Board of Directors is looking forward to an interesting year of meetings, speakers, field trips, and other activities.

In late July a surprise from Grand View Terrace, (GVT), and instead of allowing the Club to have our regular monthly meeting on the first Friday of the month in October-December, instead GVT had booked local events. Therefore, everyone will need to revise their meeting planner with the new available WV STEM Club meeting dates we were provided:

(Thursday), 10/03/2024

(Thursday), 11/07/2024

(Wednesday), 12/11/2024

As I announced several times, after three years as President of the West Valley STEM Club, it is time to recruit new officers and new Board of Directors' members. The Board of Directors meet September to May, on the third Monday of the month, 9:30 am at the Grandview Terrace, in the first-floor meeting room. If you are an active Club member and wish to see the Club continue to grow and have interesting programs, please consider coming to our **Board Meeting on September 16, 2024 or any future Board Meeting.**

The Club will need new officer nominees in October, the Nominating Committee will be taking Club officers nominations for the 2025 calendar year. Please notify me or Steve Sumner if you have a person to be considered. The slate of officers will be presented to the Club at the November 7th meeting for a November meeting vote. The Club has a GREAT TEAM on the Board of Directors and everyone complements each other very well. If you have an interest or need additional information, please contact Jim Schlenvogt, js3820@msn.com, 480-869-0548 or one of the other Club Board of Directors' members.

The Program Committee, chaired by Peter Rauen, has had to recruit new speakers for the November and December meetings due to the conflict with the Grandview Terrace meeting schedule.

In addition, the Board is researching participating in these field trips again this year:

- ASU Earth & Space Exploration Day

FRIDAY October 4, 2024, 6:00 PM – 9:00 PM

- City of Surprise - SciTech Festival

SATURDAY. NOVEMBER 16, 2023, 10:00 AM – 2:00 PM.

In closing, I hope you have a safe and healthy new Club year, and we look forward to seeing you and your guest at the next meeting. We appreciate your support!

WEST VALLEY STEM October 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	Don Zoss/ Betty Goldberg
Newsletter	Dave and Karen Campbell
Website	Gary Graunke
Event Audio	Doug Totel
Event Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	George Zieglgansberger
Past President	Steve Sumner

Email the Board at: js3820@msn.com

Arizona SciTech Festival November 16, 2024

In the past the West Valley STEM Club has been able to have a table at this event. Last year the event was rained out, but for other years, this is a way to do community outreach. Unfortunately, Jim Schlenvogt will not be able to attend this year, due to other commitments. If you are interested in helping out with the table, please contact him at js3820@msn.com. See additional information from the City of Surprise below.

The 2024 SciTech Festival, a signature event of the Arizona SciTech Festival in partnership with the SciTech Institute. This annual event will take place on November 16, 2024, from 10 AM to 2 PM at Mark Coronado Park, located at 15960 N Bullard Ave, Surprise, AZ 85374.

2024 MEETING DATES

The Club's **REVISED** meeting dates for 2024:
**October 3rd , November 7th , and
December 11th.**

TREASURER'S REPORT AUGUST 2024

Gross General Fund Balance	\$12,532.61
Net Fund Balance (after payment of obligations)	\$4,763.99
Membership	109

The June 50/50 winner was Jim Schlenvogt. Jim donated his \$25 winnings to the Scholarship Fund. Thank You for Your Support!

Earth and Space Exploration Evening Open House October 4, 2024



Earth and Space Exploration Evening and Open House is a free annual event hosted by the School of Earth and Space Exploration with their graduate students on the ASU Tempe campus each fall. This event is open to students ages five and up, families, educators, and

anyone interested in Earth and space. Highlights include talks with scientists, interactive exhibits, 3D planetarium shows, and student science exhibits, plus stargazing with telescopes to explore the night sky.

Details:

Date: Friday, October 4, 2024

Time: 6 p.m. - 9 p.m.

Location: ISTB4

If interested, please contact Jim at js3820@msn.com

NOVEMBER 7 PROGRAM

Cyber Security for Seniors

Nancy Juarez

Community Engagement Coordinator
Arizona Attorney General's Office

JUNE 7 PROGRAM

Exploring Resilient Solutions to the Problem of Extreme Heat in Phoenix

David Sailor

Professor and Director of the School of Geographical
Sciences and Urban Planning , ASU

