



## May 2024 Newsletter

[www.engineersaz.com](http://www.engineersaz.com)

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).

### MAY 3 PROGRAM

**"Translational Research - Getting the best pancreatic cancer research to patients as rapidly as possible."**

**Derek Cridebring, Ph.D.**

**Director of the Molecular Medicine Division  
TGen**



Derek Cridebring, Ph.D. is currently Director of the Molecular Medicine Division at the Translational Genomics Research Institute (TGen) in Phoenix, Arizona. He was born and raised in Phoenix and earned his B.S. in Biochemistry at the University of Arizona in Tucson. During his time at the U of AZ he joined the Army Reserves and earned the distinction of Soldier of the Year of the 7220th Re-

serve Unit. After finishing his bachelor's degree, Dr. Cridebring attended Baylor College of Medicine in Houston, TX, obtaining his Ph.D. -Neuroscience and Biochemistry, for his work on the neurodegenerative disease (ALS). Also, during his time in graduate school, his reserve unit was called to duty and he served a year in Iraq as a Preventive Medicine Specialist during Operation Iraqi Freedom.

### PRESIDENT'S MESSAGE

**Jim Schlenvogt**

Hello everyone! The Club appreciated everyone who attended the April 5th regular monthly meeting and the Monday, April 15, 2024 "Bonus" Spring Picnic Social Event to start the celebration of the Club's 50th Anniversary at the Beardsley Park in Sun City West.

This year the Club's Scholarship Committee only received four scholarship applications. In March, the applications were evaluated and the two qualifying STEM students were interviewed. The two winning scholarship students have agreed to attend the May 3, 2024 luncheon meeting. They both will be able to present their background and their academic and career goals. The winning scholarship students are the following:



**Fiona Rasco**

High School: Moon Valley HS  
Glendale, AZ

Major: Psychological Sciences with  
emphasis in Neuroscience and  
minor in Biology @ Nau



**Jeyra Nevarez Araiza**

High School: Westview HS  
Avondale, AZ

Major: Biology @ GCC,  
Biomedical Science @ ASU

### JIM SCHLENOVGT

#### PRESIDENT'S INVITATION

Hello everyone! 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 May 20, 2024. The Club will need new officer nominees by the October 4th meeting and the election of the 2025 officers is scheduled for November 1, 2024. 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.

Both students were approved for a \$3,000 West Valley STEM Club Scholarship, with half of the scholarship paid for tuition in August, 2024 and based on qualifications, the second half payable in December, 2024.

We look forward to seeing you at the next meeting. Bring a guest!  
Safe Travels and Good Health!

# WEST VALLEY STEM May 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](mailto:js3820@msn.com)

ates technologies and strategies for mitigating extreme heat and its consequences His research in these areas was recently recognized by the American Meteorological Society who awarded him the 2023 Helmut E. Landsberg Award in Urban Climate.

### Abstract:

As part of a recently-funded US Department of Energy Project, Dr. Sailor is leading an effort to explore and address the spatial and temporal variation of extreme heat in the Phoenix metropolitan area. This includes identifying the hot spots, and the spatial variation of landuse / landcover, and other factors that contribute to local urban heat islands. This project, known as the Southwest urban corridor integrated field laboratory ([SW-IFL](#)) is also seeking to understand that wide array of possible resilient solutions to heat by systematically modeling and measuring the performance of various solutions as applied in Phoenix. This presentation will summarize the SW-IFL project, discuss early findings, and highlight some of the current and upcoming measurement campaigns exploring resilient solutions.

## TREASURER'S REPORT APRIL 2024

Gross General Fund Balance	\$12,051.68
Net Fund Balance (after payment of obligations)	\$5,115.58
Membership	105

The April 50/50 winner was Bonnie Williams. Bonnie donated her \$86 winnings to the Scholarship Fund. Thank You for Your Support!

## 2024 MEETING DATES

May 3rd, June 7th, October 4th, November 1st, and December 6th.

## 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



David Sailor is a Professor and Director of the School of Geographical Sciences and Urban Planning at Arizona State University. His research focus is at the intersection of climate and the built environment. Specifically, he has worked extensively on understanding the mechanisms that contribute to the urban

heat island effect—most notably, his work on anthropogenic heat emissions in cities. He also investigates and evalu-

## APRIL 5 PROGRAM

### Quantum Computing

Professor Christian Arenz  
School of Electrical, Computer and  
Energy Engineering, ASU

