



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).

JANUARY 2 PROGRAM

Secure Communication Applying Lessons from Cryptography to Everyday Life Gary Graunke , Retired



Biography of the Presenter
Gary Graunke is a retired staff architect for cryptography at Intel Labs and a life member of the IEEE and ACM. He has served on ANSI programming language and IEEE cryptography stand-

ards. He has 55 issued US patents. While at Intel, he contributed to numerous security initiatives including secure microcode updates, secure enclaves (Intel Software Guard), and protected audio-video paths. His contributions to the security of HDMI were recognized by the Academy of Television Arts and Sciences in awarding a 2007 Science and Technology EMMY to Intel.

Abstract: Communication is a vital part of preventing fraud and allowing commerce. But how do we know who is on the other end of the line? How do they know it is really us? How strong is our password? What goals and concerns should we have, and what tools and protocols are useful? The 5-step process we used for designing a secure authenticated channel can be adapted to the consumer environment. Over time, the strength of our solutions must match the growth in the adversary's computing power as well as deal with new technology threats such as AI and quantum computing.

PRESIDENT'S MESSAGE

Gary Graunke

It's a busy time of year, and we are reconnecting with friends and family and perhaps traveling over the holidays. It is a time when we look back on our blessings of the past year, and look forward to the challenges and opportunities of the new year.

I would like to thank the volunteers, speakers, and Grandview staff that have made 2025 activities possible. There are a lot of moving parts to our organization! We can always use more help with meeting reservations, membership, scholarships, meeting A/V, programs, our newsletter, website, and publicity committees—and you don't have to attend board meetings. Of course, you are always welcome to join us—our next meeting is January 19th at 9:30 in the Grandview Café.

At SciTech, we met many young aspiring scientists and engineers, another community college with students that fit our scholarship focus, and even a few potential speakers.

This spring we are looking forward to learning more about A.I., the growing semiconductor industry in our area, mosquito carried diseases and local efforts to control them, and other timely topics that affect the quality of our life and make us healthier and better informed citizens. Know of a speaker/field trip opportunity or just have an interest in a particular topic? Let us know!

Finally, we wish you a safe and enjoyable holiday and blessed new year!

SPEAKERS NEEDED

If you or someone you know will provide a STEM presentation for a future meeting, please contact

Jim at js3820@msn.com.

Scholarship Donations

The West Valley STEM Club is continuing our Annual Scholarship Fund Donation Event at our December and January meetings. Please consider contributing!

WEST VALLEY STEM January 2026

2025 OFFICERS

President	Gary Graunke
Vice President	Bob Parizek
Secretary	Betty Goldberg
Treasurer	Carol Mungus
Asst. Treas.	Dave Campbell

COMMITTEE CHAIRPERSONS

Programs	Jim Schlenvogt/ Peter Rauen/ Rick Cecil
Membership	Steve Sumner
Reservations	Philip Main
Luncheons	Jim Schlenvogt
Scholarship	Jim Schlenvogt
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Website	Gary Graunke
Event Audio/Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	Bob Parizek
Past President	Jim Schlenvogt

Email the Board at: js3820@msn.com

FEBRUARY 6 PROGRAM

Artificial Intelligence

Gautam Dasarathy, ASU Electrical Engineering, Artificial Intelligence

Gautam Dasarathy is an assistant professor in the School of Electrical, Computer and Energy Engineering at the Arizona State University. Before this, he was a postdoctoral fellow in the Electrical and Computer Engineering Department at Rice University where he worked with Rich Baraniuk. And prior to that, Dasarathy was at the Machine Learning Department at Carnegie Mellon University where he worked with Aarti Singh.

Dasarathy received his master's degree and doctorate in electrical engineering in 2010 and 2014, respectively, from the University of Wisconsin-Madison, where he was advised by Rob Nowak and Stark Draper. Before that, he received his bachelor's degree in electronics and communication engineering in 2008 from VIT University.

His research interests span topics in machine learning, statistics, signal processing and networked systems, and information theory.

Education

- Ph.D. Electrical Engineering, University of Wisconsin-Madison 2014
- M.S. Electrical Engineering, University of Wisconsin-Madison 2010
- B.Tech. Electronics and Communication Engineering, VIT University, India 2008

TREASURER'S REPORT DECEMBER 2025

Gross General Fund Balance	\$12,871
Net Fund Balance (after payment of obligations)	\$8,468
Membership	110

The 50/50 was won by Jim Schlenvogt who donated it to the Scholarship Fund. Thank you for your support!

DECEMBER 5 PROGRAM

The Science of Food Irradiation

Joe Butterweck, DVM Retired



2026 MEMBERSHIP DUES

Dues for 2026 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)