

VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

June 2019 NEWSLETTER

www.engineersaz.com

The Engineers Club is a social organization which meets regularly for lunch with a speaker on a technical topic. Spouses are invited and many attend regularly. Short field trips are occasionally scheduled. Membership is open to anyone who has worked in or related to the engineering or scientific fields. 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

Visitors are always welcome - - just call Reservations at (623)544-0942 to let us know you are coming.

JUNE 7 PROGRAM

The Maricopa Community Colleges: Reforming STEM Education One Student at a Time.

Dr. Tim Frank, Professor of Engineering, Engineering Program Director, Glendale Community College



Dr. Tim Frank grew up on the west side of Phoenix. After high school, he attended Baylor University, where he was a dual major in electrical engineering and physics. He graduated in 1990 with a B.S. degree, and then went on to attend the California Institute of Technology, and earned a Master's of Science degree in applied physics in

1992 and a Ph.D. in 1998, with his area of research focusing on computing with artificial neural networks. While finishing his Ph.D. dissertation, he taught computer programming and circuit analysis courses for 2½ years within the electrical engineering department at Purdue University's Indianapolis campus, (IUPUI). Dr. Frank returned to the Phoenix area in the fall of 1999. He taught computer programming, physics, and math courses for Western International University and Estrella Mountain Community College, before becoming the engineering instructor at South Mountain Community College in the fall of 2000. Tim worked at SMCC until May 2016, when he transferred to Glendale Community College to become their engineering program director. Tim has been married since 1990 to Dr. Karen Connally-Frank, who is a physician of internal medicine in Sun City West, and they have three daughters.

Abstract: As the price of tuition at universities across the country continues to rise, community colleges have become the first choice for many people wanting to pursue higher education. The Maricopa Community College District, which consists of 10 independently accredited colleges, is among the largest in the country and serves over 120,000 students each semester. While technologically savvy college graduates are necessary for our country to remain competitive in our complex world, how do we prepare a diverse group of often under prepared, academically weak students to succeed in challenging STEM careers? With small classes, personalized attention, free tutoring, low tuition, and numerous scholarship opportunities, the Maricopa Community Colleges are making a difference in our community – one student at a time. Learn about the philosophy of the engineering department at GCC, hear the stories of some of our students, and find out how you can get involved and help make a positive impact in their lives.

FROM PRESIDENT STEVE SUMNER

It is with great sadness that we announce the passing of Tod Hamilton. Tod Hamilton joined VEST in 2010 and became VP in 2016. He then became President in 2017 and served for two terms. The Club is grateful for all his service and will miss him.

As we reach our summer break, I would like to thank everyone for attending our Luncheon meetings. If you have not paid your 2019 Membership dues, please do so. If your dues are not paid by the end of the year, you will be dropped from membership. We are in the process of updating our membership directory in order to make available next year a new directory to paid up members.

A challenge to our Club's continuing existence is two-fold.

First, we need members to step up to positions on the governing board. We currently still have the Vice President vacancy. In addition, our Program coordinator, Rick Cecil, is looking for an individual to assist him and to take over his job functions. Our election for 2020 will be in December, 2019. We will be looking for someone to run for Vice President and another for the Secretary position. If anyone would like to see what each board position does, please attend the next Board Meeting on September 16, 2019 at 9:30 AM at Briarwood CC.

Second, our membership has been decreasing. Please talk up our club to your friends. The Board is looking at ways to incentivize members to get new members. More details will be forthcoming.

Have a good and safe summer. Hope to see you all at the next General Meeting on October 4, 2019.

2019 VEST SCHOLARSHIP RECIPIENTS



Left to right: Clint Howard, John Coronite, Samantha Barr, Samantha Barr, Michelle Patterson

2019 VEST LUNCHEON DATES

June 7, October 4, November 1, December 6

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2019 OFFICERS

President	Steve Sumner
Vice President	Open
Secretary	Doris Palmer
Treasurer	Carol Mungas
Asst. Treas.	Dave Campbell

COMMITTEE CHAIRPERSONS

Programs	Rick Cecil
Membership	Philip Main
Reservations	Dave Whitehouse
Luncheons	Susan Whitehouse
Scholarship	Jim Schlenvogt
Member at Large	Peter Rauen
Newsletter / Website	Dave Campbell
Event Audio	Hal Lind
Event Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	Eric Muhly
Hospitality	Doris Palmer
Past President	Tod Hamilton

Email the Board at: board@engineersaz.com

OCTOBER 4 PROGRAM

The Science Behind the “Mummies” of Nazca, Peru

Dr. Robert E. Farrell



Dr. Robert E. Farrell received his Bachelor of Science in mechanical engineering from The Ohio State University, his MBA from Western New England College, and his Doctor of Engineering from the University of Massachusetts. He is now retired from Penn State University as Associate Professor Emeritus.

Twenty years ago, he began doing serious research for his science fiction series of novels; Alien Log, Alien Log II: The New World Order, and Alien Log III: The Dulce Affair. Currently, he is working on Alien Log IV: The Antarctic Affair. He believes good science fiction is based on good science. All of Dr. Farrell's books made “Best Sellers List” on Amazon in 2012. He has lectured many times at universities, science centers, MUFON meetings, Roswell (2005 and 2018), book stores, clubs, and senior centers around the country. He has appeared on numerous TV and radio shows including Coast-To-Coast AM with George Noory in 2006 and 2012.

Abstract: All of the bodies are hominid but have only three fingers and three toes. The bodies have all been preserved for perhaps thousands of years and have not had any internal organs removed. Some of the bodies are believed to be reptilian and one has four eggs that show in x-rays. One of the mummies, Maria, has been carbon dated to have died about 1400 years ago and “Wawica”, a baby found near Maria has been dated to 670 years ago. The genetic studies indicate that both Maria and Wawica have only about 25% modern human DNA. Are these bodies a new branch from the tree of evolution or are they not from Earth? Either way the find is historic.

TREASURER'S REPORT MAY 2019

General Fund Balance:	\$ 10,439.80
Scholarship Fund:	\$ 2,030.00
Membership Total:	145

May 50/50 was \$ 78.00 - Congratulations to winner Barb Sumner!
2019 membership dues are now due.

LUNCHEON MENUS

June 7: #1 Southern Fried Pork Chop , or #2 Shrimp Scampi Both entrées will come with House Salad, Mashed Potatoes, Honey Glazed Carrots, and Chocolate Bread Pudding. *(Grilled Vegetable Plate or Fruit Plate also available)*

October 4: #1 Home Style Meatloaf or #2 Grilled Salmon. Both entrées will come with House Salad, Mashed Potatoes, Sauteed Squash with Onions, and Apple Cobbler with Vanilla Ice Cream.

(Grilled Vegetable Plate or Fruit Plate also available)

RESERVATION POLICY

The cost of the monthly luncheon is \$22.00 cash or check. The reservation deadline is 6 PM Monday before the meeting.

Late reservations cannot be guaranteed the regular meal. Call Dave Whitehouse to cancel your reservation.

Note that the full cost of the luncheon will be charged for “no-shows” and cancellations after 5 PM on Wednesday before the meeting.

Please have cash or make out your check in advance.



The ASU Space Technology and Science (NewSpace) Initiative: Advancing the Emerging Space Industry at ASU May 3 Speaker: Scott Smas, ASU

FUTURE MEETINGS

November 1

Title: Water in AZ Speaker: Dave White PhD, ASU