

VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

May 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.

MAY 3 PROGRAM

The ASU Space Technology and Science (NewSpace) Initiative: Advancing the Emerging Space Industry at ASU

Scott Smas, ASU



Scott Smas is the Program Manager for the ASU Space Technology and Science (NewSpace) Initiative. He is responsible for the overall operations of the initiative and managing the strategic direction the initiative pursues on collaborations and funding. Throughout the past 20+ years with ASU, he has been in a variety of positions to promote the business and

research support functions of multiple faculty, disciplines and programs.

Abstract: ASU Space Technology and Science (NewSpace) Initiative is one of the strategic initiatives at Arizona State University that focuses on relationships with the emerging and disruptive "NewSpace" sector in Arizona and beyond. We leverage the growing ASU legacy of discovery in space sciences and technologies and showcase this to the emerging commercial space industry. From our early stage success with Professor Craig Hardgrove's NASA funded LunaH Map cubesat mission (with multiple new commercial partners) to engagements with members of the Commercial Spaceflight Federation. ASU NewSpace is at the forefront of this evolving and entrepreneurial field. An overview of the current ASU activities including the MILO Institute, highlights of the new players in Arizona and beyond, and what will the

FROM SCHOLARSHIP COMMITTEE CHAIR JIM SCHLENOG

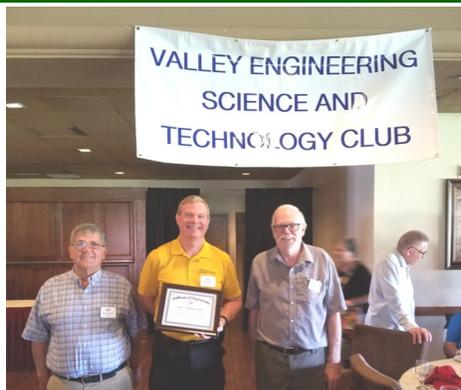
The VEST Club and the VEST Scholarship Committee welcomes the following Glendale Community College 2019 VEST Scholarship recipients to our May 3rd Monthly Meeting:

Samantha Barr - Biomedical Engineering	\$3,000
John Coronite – Computer Science	\$1,000
Clint Howard – Mechanical Engineering	\$1,000
Michelle Patterson – Industrial Engineering	\$1,000

The Scholarship Committee found all four of these students demonstrated a successful commitment to advanced education in a 4-year Engineering, Science, or Technology field by completing courses equivalent to a full Sophomore Year with a grade point average of at least 3.0. According to the scholarship guidelines, the committee specifically found headway had been achieved in college level calculus, chemistry, computer or physics courses as well as demonstration of financial need and volunteerism. These four students will provide more information on their backgrounds and thank the VEST Club for their 2019 VEST scholarship donations.

VEST usually provides only one \$3000 scholarship per year, but this year all of the students interviewed were outstanding candidates and VEST finances permitted additional rewards. In the future, without increased support, it may not be possible to provide additional rewards. What can we do as VEST Club members and guests to ensure VEST has adequate funds to continue the annual Scholarship Program???? We can all participate in the **50/50 Split-the-Pot Raffle** at the front tables as you enter the meeting. At least 50% of the Pot's revenue is deposited in the VEST Scholarship Fund and the winner has the option of donating their winnings. In addition, please continue to recruit more members so we have some of the dues revenue to support the VEST Scholarship Program. Currently, one half of the annual dues of each Club member are designated to the Scholarship Fund to provide, at a minimum, a \$3,000 scholarship each calendar year. Also, individual donations to the scholarship fund can be made at any time. Thank you for your support and participation!

Almost since its inception, the Valley Engineering, Science, and Technology Club (VEST) has provided a scholarship to a qualified student aspiring to a Baccalaureate degree in Engineering, Science, or Technology. The VEST Club will be interviewing the next group of students in February/ March, 2020.



Exploring Ocean Worlds

February 1 speaker: David Williams, PhD ASU
For more information on our speakers, please visit our website at www.engineersaz.com

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	Les Sherry
Newsletter / Website	Dave Campbell
Event Audio	Hal Lind
Event Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	Open
Hospitality	Doris Palmer
Past President	Tod Hamilton

Email the Board at: board@engineersaz.com

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.

TREASURER'S REPORT MARCH 2019

General Fund Balance: \$ 10,648.33

Scholarship Fund: \$ 1,902.00

Membership Total: 145

March 50/50 was \$ 82.00 - winner was Dave Campbell who donated his entire winnings to the Scholarship Fund! Thank You! 2019 membership dues are now due.

LUNCHEON MENUS

May 3: #1 B.B.Q. Pork Ribs, or #2 Salmon Both entrées will come with Spinach Salad, Rice Pilaf, Asparagus and a Red Velvet Torte. (*Grilled Vegetable Plate or Fruit Plate also available*)

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*)

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.

FUTURE MEETINGS

October 4

Title: The Science Behind the "Mummies" of Nazca, Peru

Speaker: Bob Farrell, PhD